






Elliot C. Cutler



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THE HARVARD MEDICAL SCHOOL

LONGWOOD AVENUE, BOSTON, MASS.

1922-23

WITH AN ANNOUNCEMENT FOR 1923-24



PUBLISHED BY HARVARD UNIVERSITY



ANNOUNCEMENT
OF THE
MEDICAL SCHOOL
LONGWOOD AVENUE, BOSTON, MASS.
OF
HARVARD UNIVERSITY
FOR
1922-23

WITH AN ANNOUNCEMENT FOR 1923-24



PUBLISHED BY THE UNIVERSITY

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MEDICAL SCHOOL CALENDAR

1922

- Sept. 25, Monday.* **Academic year begins.** Registration of Students. Payment of the first instalment of the tuition fee is required on this date.
- Oct. 12, Thursday.* Columbus Day : a holiday.
- Nov. 29, Wednesday.* Payment of the second instalment of the tuition fee is required on or before this date.
- Nov. 30, Thursday.* Thanksgiving Day : a holiday.
- Dec. 9, Saturday.* Last day for receiving applications for the Cheever, Haven, and Hayden Scholarships.

RECESS FROM DEC. 23, 1922, THROUGH JAN. 2, 1923, INCLUSIVE

1923

- Jan. 1, Monday.* New Year's Day : a holiday
- Jan. 13, Saturday.* Last day for receiving applications from students in the Professional Schools to be qualified for the degrees of Ph.D. and A.M. in 1923.
- Jan. 30, Tuesday.* Payment of the third instalment of the tuition fee is required on or before this date.
- Jan. 31, Wednesday.* **Second half-year begins.**
- Feb. 22, Thursday.* Washington's Birthday : a holiday.
- Mar. 31, Saturday.* Last day for receiving dissertations for the Bowdoin Prizes.

RECESS FROM APRIL 16 TO APRIL 22, INCLUSIVE

- Apr. 30, Monday.* Payment of the fourth instalment of the tuition fee is required on or before this date.
- May 1, Tuesday.* Last day for receiving dissertations for the Dante, Toppan, and Sumner Prizes.
- May 1, Tuesday.* Last day for receiving applications for the Bul-
lard Fellowships and the Moseley Travelling
Fellowships.

May 1, Tuesday. Last day for receiving applications of Scholarships for 1923-24 (except the Cheever, Haven, and Hayden Scholarships).

May 1, Tuesday. Last day for receiving applications of candidates for the degree of M.D. in 1923.

May 30, Wednesday. Memorial Day : a holiday.

June 21, Thursday. **Commencement:** a holiday.

SUMMER VACATION, FROM COMMENCEMENT TO SEPTEMBER 23, INCLUSIVE

THE PRESIDENT AND FELLOWS OF HARVARD COLLEGE

This Board is commonly known as the CORPORATION.

PRESIDENT

ABBOTT LAWRENCE LOWELL, A.B., LL.B., LL.D., PH.D.
17 Quincy St., Cambridge

FELLOWS

HENRY PICKERING WALCOTT, A.B., M.D., LL.D.
11 Waterhouse St., Cambridge

THOMAS NELSON PERKINS, A.B., LL.B. 60 State St., Boston

WILLIAM LAWRENCE, A.B., D.D., LL.D., D.C.L.
122 Commonwealth Ave., Boston

JOHN FARWELL MOORS, A.M., LL.D. 32 Mt. Vernon St., Boston

JAMES BYRNE, A.B., LL.B. 24 Broad St., New York, N.Y.

TREASURER

CHARLES FRANCIS ADAMS, A.B., LL.B. 50 State St., Boston

DEPUTY TREASURER

GORHAM BROOKS, A.B. 50 State St., Boston

SECRETARIES TO THE CORPORATION

FRANCIS WELLES HUNNEWELL, A.B., LL. B.
5 University Hall, Cambridge

FREDERICK LEWIS ALLEN, A.M. 5 University Hall, Cambridge

THE BOARD OF OVERSEERS

The PRESIDENT and TREASURER of the University, *ex officio*, and the following persons by election : —

1923 *

FRANCIS JOSEPH SWAYZE, A.M., LL.D.

765 High St., Newark, N.J.

LEONARD WOOD, M.D., LL.D., D.C.L., M.S.D.

Manila, Philippine Islands

ARTHUR WOODS, A.M.

165 East 74th St., New York, N.Y.

JEROME DAVIS GREENE, A.M. 43 Exchange Place, New York, N.Y.

FRANKLIN DELANO ROOSEVELT, A.B., LL.D. Hyde Park, N.Y.

1924

HENRY CABOT LODGE, PH.D., LL.B., LL.D.

United States Senate, Washington, D.C.

GEORGE WIGGLESWORTH, A.M., LL.B. 40 Central St., Boston

FRANCIS RANDALL APPLETON, A.B., LL.B.

26 E. 37th St., New York, N.Y.

IRA NELSON HOLLIS, A.M., L.H.D., S.D.

Worcester Polytechnic Institute, Worcester

PAUL REVERE FROTHINGHAM, A.M., S.T.B.

294 Beacon^a St., Boston

1925

EDWARD HICKLING BRADFORD, A.M., M.D.

220 Beacon St., Boston

OWEN WISTER, A.M., LL.B., LL.D., L.H.D.

1004 West End Trust Building, Philadelphia, Pa.

JULIAN W. MACK, LL.B. Woolworth Building, New York, N.Y.

THOMAS WILLIAM LAMONT, A.B. 23 Wall St., New York, N.Y.

ELLERY SEDGWICK, A.B.

8 Arlington St., Boston

* The term expires, in each case, on Commencement Day of the year indicated.

1926

- WILLIAM ROSCOE THAYER, A.M., LL.D., L.H.D., LITT.D.
8 Berkeley St., Cambridge
- EDWIN FRANCIS GAY, PH.D., LL.D. 20 Vesey St., New York, N.Y.
- LOUIS ADAMS FROTHINGHAM, A.B., LL.B.
House of Representatives, Washington, D. C.
- NORWOOD PENROSE HALLOWELL, A.B. 44 State St., Boston
- ROGER WOLCOTT, LL.B., 60 State St., Boston

1927

- EDGAR CONWAY FELTON, A.B. Haverford, Pa.
- HOMER GAGE, A.B., M.D., A.M. 8 Chestnut St., Worcester
- LANGDON PARKER MARVIN, A.B., A.M., LL.B.
52 Wall St., New York, N.Y.
- JAMES JACKSON, A.B. State House, Boston
- CHARLES H. BRENT, S.T.D. 237 North St., Buffalo, N.Y.

1928

- CHARLES ALLERTON COOLIDGE, ART.D.
122 Ames Building, Boston
- WILLIAM SYDNEY THAYER, M.D., LL.D., F.R.C.S.
1208 Eutaw Place, Baltimore, Md.
- HENRY JAMES, LL.B. 10 East 10th St., New York, N.Y.
- SAMUEL SMITH DRURY, LITT.D., D.D.
St. Paul's School, Concord, N.H.
- BENJAMIN LORING YOUNG, LL.B. Auburndale

 SECRETARY OF THE BOARD OF OVERSEERS

- WINTHROP HOWLAND WADE, A.M., LL.B.
321 Shawmut Bank Building, Boston

MEDICAL SCHOOL

FACULTY OF MEDICINE *

ADDRESS†

- ABBOTT LAWRENCE LOWELL, LL.B., LL.D.,
PH.D., PRESIDENT, 17 Quincy St., Cambridge.
- DAVID L. EDSALL, M.D., S.D., DEAN, and *Jackson*
Professor of Clinical Medicine, Mass. General Hospital.
- WORTH HALE, M.D., *Assistant Dean of the Faculty of*
Medicine, and Associate Professor of Pharmacology,
67 Lake View Ave., Cambridge.
- CHARLES A. BRACKETT, D.M.D., *Professor of Den-*
tal Pathology, Newport, R. I.
- EUGENE H. SMITH, D.M.D., *Professor of Clinical*
Dentistry, and Dean of the Dental School, 283 Dartmouth St.
- GEORGE H. MONKS, M.D., M.R.C.S., *Professor of*
Oral Surgery, 51 Commonwealth Ave.
- GEORGE E. BUSHNELL, M.D., COL., U.S.A., Retired,
Professor of Military Science and Tactics in the
Harvard Medical School, Bedford.
- WILLIAM H. POTTER, D.M.D., *Professor of Opera-*
tive Dentistry, 16 Arlington St.
- WILLIAM P. COOKE, D.M.D., *Professor of Preven-*
tive Dentistry and Oral Hygiene, 520 Beacon St.
- ALGERNON COOLIDGE, M.D., *Professor of Laryn-*
gology, 613 Beacon St.
- ROBERT W. LOVETT, M.D., *John B. and Buckmin-*
ster Brown Professor of Orthopedic Surgery, 234 Marlborough St.
- WILLIAM T. PORTER, M.D., LL.D., S.D., *Professor*
of Comparative Physiology, Dover.

* Arranged, with the exception of the President, Dean, and Assistant Dean, on the basis of collegiate seniority.

† The address is Boston unless otherwise stated.

- PAUL THORNDIKE, M.D., *Clinical Professor of Gen-
ito-Urinary Surgery*, 24 Marlborough St.
- MILTON J. ROSENAU, M.D., A.M., *Charles Wilder
Professor of Preventive Medicine and Hygiene*,
65 Naples Road, Brookline.
- J. BAPST BLAKE, M.D., *Assistant Professor of Sur-
gery*, 161 Beacon St.
- EUGENE A. CROCKETT, M.D., *Walter Augustus
Lecompte Professor of Otology*, 298 Marlborough St.
- HOWARD A. LOTHROP, M.D., *Assistant Professor of
Surgery*, 101 Beacon St.
- ALEXANDER QUACKENBOSS, M.D., *Williams Pro-
fessor of Ophthalmology*, 143 Newbury St.
- CHARLES A. PORTER, M.D., *Professor of Clinical
Surgery*, 116 Beacon St.
- EDWARD W. TAYLOR, M.D., *James Jackson Putnam
Professor of Neurology*, 457 Marlborough St.
- RICHARD C. CABOT, M.D., *Professor of Clinical Med-
icine*, 1 Marlborough St.
- ALICE HAMILTON, M.D. *Assistant Professor of In-
dustrial Medicine*, 227 Beacon St.
- JAMES S. STONE, M.D., *Instructor in Surgery*, 234 Marlborough St.
- PHILIP HAMMOND, M.D., *Instructor in Otology*, 483 Beacon St.
- ELLIOTT P. JOSLIN, M.D., A.M., *Assistant Professor
of Medicine*, 81 Bay State Road.
- CALVIN G. PAGE, M.D., *Assistant Professor of Bac-
teriology*, 128 Marlborough St.
- C. MORTON SMITH, M.D., *Clinical Professor of Syph-
ilology*, 437 Marlborough St.
- CHARLES J. WHITE, M.D., *Edward Wigglesworth
Professor of Dermatology*, 259 Marlborough St.
- JAMES H. WRIGHT, M.D., S.D., *Assistant Professor
of Pathology*, Mass. General Hospital.
- HARVEY CUSHING, M.D., S.D., F.R.C.S., *Moseley
Professor of Surgery*, Peter Bent Brigham Hospital.
- WILLIAM P. GRAVES, M.D., *Professor of Gynae-
cology*, 198 Commonwealth Ave.
- REID HUNT, M.D., *Professor of Pharmacology*,
382 Commonwealth Ave.

- WILLIAM H. ROBEY, JR., M.D., *Assistant Professor of Medicine*, 202 Commonwealth Ave.
- OTTO FOLIN, PH.D., S.D., *Hamilton Kuhn Professor of Biological Chemistry*, Harvard Medical School.
- ROBERT B. GREENOUGH, M.D., *Assistant Professor of Surgery*, 8 Marlborough St.
- HARRIS P. MOSHER, M.D., *Assistant Professor of Laryngology, and Associate in Anatomy*, 828 Beacon St.
- FRANKLIN S. NEWELL, M.D., *Professor of Clinical Obstetrics*, 443 Beacon St.
- WILLIAM H. SMITH, M.D., *Instructor in Medicine*, 8 Marlborough St.
- RICHARD P. STRONG, M.D., S.D., *Professor of Tropical Medicine*, Harvard Medical School.
- FREDERICK S. BURNS, M.D., *Instructor in Dermatology*, 237 Marlborough St.
- GEORGE B. MAGRATH, M.D., *Instructor in Legal Medicine*, 274 Boylston St.
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- ROBERT B. OSGOOD, M.D., *Instructor in Orthopedic Surgery*, 372 Marlborough St.
- FREDERICK H. VERHOEFF, M.D., *Assistant Professor of Ophthalmology*, 5 Euston St., Brookline.
- J. LEWIS BREMER, M.D., *Associate Professor of Histology*, 416 Beacon St.
- WALTER B. CANNON, M.D., *George Higginson Professor of Physiology*, Harvard Medical School.
- GEORGE S. DERBY, M.D., *Assistant Professor of Ophthalmology*, 522 Commonwealth Ave.
- EDWIN A. LOCKE, M.D., *Assistant Professor of Medicine*, 311 Beacon St.
- JOHN WARREN, M.D., *Associate Professor of Anatomy*, Harvard Medical School.
- DAVID CHEEVER, M.D., *Assistant Professor of Surgery, and Associate in Anatomy*, 193 Marlborough St.

- FREDERIC T. LEWIS, M.D., *Associate Professor of*
Embryology, Harvard Medical School.
- FREDERICK T. LORD, M.D., *Instructor in Medicine,* 305 Beacon St.
- PERCY G. STILES, PH.D., *Assistant Professor of*
Physiology, 19 Proctor St., Newtonville.
- ERNEST E. TYZZER, M.D., *George Fabyan Pro-*
fessor of Comparative Pathology, Harvard Medical School.
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atry, 58 Lake View Ave., Cambridge.
- LAWRENCE J. HENDERSON, M.D., *Professor of Bio-*
logical Chemistry, 4 Willard St., Cambridge.
- EDWARD C. STREETER, M.D., *Lecturer on the His-*
tory of Medicine, 280 Beacon St.
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Assistant Professor of Bacteriology, 246 Marlborough St.
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559 Chestnut Hill Ave., Brookline.
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- S. BURT WOLBACH, M.D., *Shattuck Professor of*
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nary Surgery, 87 Marlborough St.
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iatrics, 311 Beacon St
- OSCAR M. SCHLOSS, M.D., *Professor of Pediatrics,*
Children's Hospital.
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- CHANNING FROTHINGHAM, M.D., *Assistant Pro-*
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and *Assistant in Gynaecology,* 496 Commonwealth Ave.
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ology, 48 Wachusett Road, Chestnut Hill.
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fessor of Surgery, 224 Beacon St.
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ology, 520 Commonwealth Ave.
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- JAMES H. MEANS, M.D., *Assistant Professor of Medi-*
cine, 15 Chestnut St.
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- ALFRED C. REDFIELD, PH.D., *Assistant Professor of Physiology*, Harvard Medical School.
- CYRUS C. STURGIS, M.D., *Instructor in Medicine*, Peter Bent Brigham Hospital.
- EDWIN J. COHN, PH.D., *Assistant Professor of Physiological Chemistry*, 25 Follen St., Cambridge.

OTHER INSTRUCTORS IN THE HARVARD MEDICAL SCHOOL*

- ADDRESS†
- WILLIAM N. SOUTER, M.D., *Instructor in Ophthalmology*, 101 Mt. Vernon St.
- MALCOLM STORER, M.D., *Instructor in Gynaecology*, 302 Beacon St.

* Arranged on the basis of collegiate seniority.

Other instructors, teaching in the Courses for Graduates, will be found listed in the several pamphlets of that department.

† The address is Boston, unless otherwise stated

- WILLIAM E. DEEKS, M.D., *Lecturer in Tropical Medicine*, Care United Fruit Co., 17 Battery Place, New York, N. Y.
- JOSEPH L. GOODALE, M.D., *Instructor in Laryngology*, 258 Beacon St.
- HARRY A. BARNES, M.D., *Instructor in Laryngology*, 205 Beacon St.
- ERNEST B. YOUNG, M.D., *Instructor in Gynaecology*, 434 Marlborough St.
- JOHN H. BLODGETT, M.D., *Instructor in Laryngology*, 390 Commonwealth Ave.
- MAYNARD LADD, M.D., *Associate in Pediatrics*, 270 Clarendon St.
- GEORGE A. DIX, M.D., *Assistant in Syphilology*, 105 Pleasant Street, Worcester.
- D. CROSBY GREENE, Jr., M.D., *Instructor in Laryngology*, 483 Beacon St.
- HARRY F. HARTWELL, M.D., *Instructor in Surgery*, 36 Walnut Park, Newton.
- CHANNING C. SIMMONS, M.D., *Instructor in Surgery*, 317 Marlborough St.
- JAMES R. TORBERT, M.D., *Instructor in Obstetrics*, 252 Marlborough St.
- PERCY BROWN, M.D., *Instructor in Roentgenology*, 155 Newbury St.
- ALBERT E. STEELE, M.D., *Instructor in Bacteriology*, 79 Robert St., Roslindale.
- RICHARD G. WADSWORTH, M.D., *Assistant in Gynaecology*, 522 Commonwealth Ave.
- NATHANIEL R. MASON, M.D., *Instructor in Obstetrics, and Assistant in Gynaecology*, 483 Beacon St.
- HENRY I. BOWDITCH, M.D., *Instructor in Pediatrics*, 86 Bay State Road.
- ROBERT L. DENORMANDIE, M.D., *Instructor in Obstetrics*, 357 Marlborough St.
- ARTHUR B. EMMONS, M.D., *Instructor in the Practice of Industrial Medicine*, 3 Joy St.
- FREDERICK E. GARLAND, M.D., *Instructor in Laryngology*, 483 Beacon St.
- FRANCIS W. PALFREY, M.D., *Instructor in Medicine*, 311 Beacon St.

- ALEXANDER H. RICE, M.D., *Lecturer on Diseases of South America*, "Miramar," Newport, R. I.
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Office, Room 104, Administration Building, Medical School. Office hours by appointment.

Assistant Dean: WORTH HALE, M.D.

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The Bursar's Office is at the Delta, Kirkland Street, Cambridge. It is open daily, except Sundays and holidays, from 9 to 1, for the receipt of fees, payments, and other financial business. A representative of the Bursar will be in the Administration Building at the Medical School at stated hours on certain days for the receipt of fees from regular students.

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Friday Afternoon Lectures, Fourth Year. — ALGERNON COOLIDGE, ROBERT W. LOVETT, JOHN WARREN.

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HARVARD MEDICAL SCHOOL BOSTON

REQUIREMENTS FOR ADMISSION

As candidates for the Degree of Doctor of Medicine the School receives the following:

I. Graduates in arts or science of approved colleges or scientific schools.

II. Students who have completed two years of work in a college or scientific school of high rank, provided they present certificates that they have maintained a rank in the first third of their class.

All applicants whether or not graduates of colleges must present evidence satisfying the Committee on Admission not simply that they have passed the courses necessary to fulfil the requirements but also that their college work has been of such character as to give promise of work of high quality in the medical course.

LANGUAGE AND SCIENCE REQUIREMENTS*

(a) All applicants must present evidence that they have such knowledge of English as is ordinarily required of all candidates for a degree in an approved college and that they have a reading knowledge of French or of German.

(b) They must present evidence that they have college credits for at least a year's work in general inorganic chemistry, in physics and in biology, and for a half-year's work in organic chemistry.

To meet the science requirements satisfactorily, time credit as follows should be secured:

Inorganic Chemistry: A minimum of eight semester hours, of which at least four should be laboratory work.

Organic Chemistry: A minimum of four semester hours, of which at least two should be laboratory work.

Physics: A minimum of eight semester hours, of which at least two should be laboratory work.

* It is assumed that before admission to an acceptable college a four years' course in High School or its equivalent will have been completed.

Biology: A minimum of eight semester hours (including not less than four hours of zoölogy), of which at least four should be laboratory work.

NOTE. — A semester hour is one hour of lecture or recitation, or two hours of laboratory work, per week for one half-year or sixteen weeks. Full courses at Harvard count as eight semester hours.

These requirements are to be satisfied in full before matriculation.

The Administrative Board reserves the right to refuse all applicants exceeding such a number as can be effectively taught.

Students are requested to apply for admission, on blanks obtained from the Assistant Dean, before May 1.

ADMISSION TO ADVANCED STANDING

Students who began their medical studies in approved medical schools may be admitted to advanced standing and become candidates for the degree of M.D. under the following conditions:—

They must have fulfilled the requirements for admission enumerated on the preceding page prior to their matriculation as students of medicine. They must be vouched for as promising men by the Dean or other responsible officer of the School from which they come.

They must furnish a certificate of time spent in medical study at least equal to that spent by the class to which they seek admission.

They must furnish certificate that they have done satisfactory laboratory and practical work in the subjects already pursued by the class to which they seek admission. The Committee on Admission will decide in each case whether examinations in the various subjects shall be required.

The minimum time of residence at this School for candidates for the degree of M.D. shall be one year; all candidates for the degree of M.D. must perform in full the work of the fourth year of the regular curriculum.

GENERAL REGULATIONS

Students are divided into four classes according to their time of study and proficiency. The Faculty reserves the right to require the withdrawal of any student at any time whenever in the opinion of his instructors it is manifest that he is incompetent for his work, or for any reason is unfit to continue his course.

Students registering in the Medical School for the first time will meet in the amphitheatre in the Administration Building, on Monday, preceding the last Wednesday in September, at 10 A.M.

In order that the time of study shall count as a full year students of all classes must register on Monday, the first day of the session.

Students are required not to engage as hospital assistants during term time, except in so far as required by the School curriculum or allowed in each case by the Administrative Board. A student may do a certain amount of required work during the summer, but may not thereby shorten his course.

EXAMINATIONS AND PROMOTION

Each student will receive a rating in each course based upon examinations or other tests as determined by each Department. These marks shall be on the scale of 100, the pass mark being 75.

No student is allowed to anticipate the examinations in the regular course of studies of his year except by special permission of the Administrative Board.

After two failures to pass an examination each student must pay a fee of three dollars at the Dean's Office before appearing for each additional examination in the same subject.

A Promoting Board for each of the first three years, consisting of members of each department giving the principal courses during that year, will meet in February to act upon cases presented as a result of the work of the first half-year and in June for the work of the entire year. The Boards will determine and send to the Dean's Office, before the final Faculty meeting in June, a mark for each student for the corresponding school year.

It is the duty of a Promoting Board, after receiving marks from the Departments concerned, to promote those qualified, to warn or condition any student as occasion demands, to interview and examine any student of whom it is in doubt, and to recommend to the Faculty that unpromising students be requested to withdraw.

The actions of the Promoting Boards are final, subject only to the standing rules of the Faculty as follow and to confirmation by that body :

1. A student who fails two major subjects in one year shall withdraw from the School.

2. The Promoting Boards at their discretion may promote a student who has failed in one subject in a year, but such a student shall not be promoted a second time nor be allowed to take the General Examination until that failure is removed.

3. A student who has failed to be promoted on two occasions shall withdraw from the School.

4. A student failing any course shall not have an opportunity for re-examination until the following September.

5. No course marks may be given out except by the Dean or Assistant Dean. The general mark given by the Promotion Board shall be announced from the Dean's Office.

The Committee on Examinations will give a General Examination to each candidate for the degree of M.D., will give him a final mark, and will recommend to the Faculty those properly qualified for the degree and for honors. The Examination will include written, oral or practical tests, at the discretion of the Committee. It will be held in June and February and may be held at other times if the Committee so decides.

The conditions under which a student may be allowed to take his General Examination, and the character and conduct of the Examination, will be determined by the Committee, subject only to the rules of the Faculty, as follow :

1. The Committee on Examinations shall not admit a student to the General Examination unless he has passed at least seven-eighths of his fourth-year courses, including medicine and surgery, and fulfilled all of the other requirements of the Faculty.

2. A student who has failed three times in a General Examination shall be debarred from further attempts.

The members of the Committee on Examinations are : Drs. AUB, COBB, COOLIDGE, CUTLER, DRINKER, EDSALL, FISKE, FROTHINGHAM, HALE, HOMANS, IRVING, LOWELL, LOVETT, MINOT, OHLER, OSGOOD, QUINBY, RACKEMANN, STURGIS, TALBOT, THAYER, WHITE, WILSON.

WITHDRAWAL FROM THE SCHOOL

A student who withdraws from the School for a period longer than one year will not be automatically re-instated upon his request, but must apply for admission to advanced standing in compliance with all the regulations then in force.

DEGREES

DEGREES OF DOCTOR OF MEDICINE

Every candidate for the degree of DOCTOR OF MEDICINE at this University must be at least twenty-one years of age, and of good moral character. He must have fulfilled all the requirements for admission to this Medical School; give evidence of having studied in a recognized medical school at least four full years, of which one year must be spent in the regular fourth-year course of this School; have passed all the required examinations; have dissected the three parts of the body to the satisfaction of the demonstrator; have taken charge of and reported on twelve cases in Obstetrics under supervision and instruction; and furnish evidence of having engaged in the practical exercises in Medicine and Surgery.

The degree of Doctor of Medicine *cum laude* or *magna cum laude* may be given to students of highest rating in the class on recommendation of the Committee on Examinations.

For special and approved purposes students may be allowed to take a portion of their work elsewhere than at the Harvard Medical School, provided that the application be approved by the Dean in consultation with the Administrative Board and the head of the Department concerned and provided that the student pass an examination on this work after its completion conducted by a member of the Faculty of the Harvard Medical School.

Every candidate for the degree of M.D. must make application for it in writing on blanks furnished at the Dean's office, on or before *May 1* of the year in which he proposes to graduate.

DEGREE OF DOCTOR OF MEDICAL SCIENCES

The degree of Doctor of Medical Sciences shall be administered by the Committee on Honors and Higher Degrees in Medical Sciences (with the exception of the members from Harvard College) which shall supervise the programme of study leading to the degree, examine candidates and make recommendations to the Faculty of Medicine.

Candidates for the Doctorate of Medical Sciences must hold the bachelor's degree in arts or science from an approved college. They must be registered in the Harvard Medical School and have fulfilled all its entrance requirements. They shall complete with an honor grade the regular elementary courses offered by this School in Anatomy, Histology and Embryology, Physiology, Biological Chemistry, Bacteriology, Pathology, Pharmacology and Clinical Pathology, together with such other subjects as may be recommended by the Committee. In addition all candidates are required to have a reading knowledge of French and German. Ordinarily this preparatory training will be equivalent to the first two years of the course of study leading to the degree of M.D. Students who have completed all or a portion of this work in other approved medical schools may be admitted to candidacy upon presenting evidence that they have passed the above subjects or their equivalents with an honor grade, and upon passing the general examination described below.

Following the completion of this preliminary training the student shall devote himself for not less than two years to the intensive study of one of the fundamental medical sciences and to the preparation of a thesis. The thesis must show an original treatment of a fitting subject and give evidence of independent research.

There shall be two examinations for every candidate for this degree, a general examination, before entering upon the work of the last two years, covering the elementary medical sciences listed above; and a final examination, upon acceptance of the thesis, covering the particular medical science chosen as a special field.

The degree is obtainable at the end of not less than two years' study devoted exclusively to one of the medical sciences, following two years devoted to the preliminary courses outlined above. But it is not given for mere reason of faithful study for a prescribed time. It is given primarily on the ground of high attainment in a selected science.

DEGREE OF DOCTOR OF PUBLIC HEALTH

Candidates for the degree of Doctor of Public Health, who formerly registered in the Medical School, will now register in the School of Public Health. The office of the School is in Building A, Room 108, Medical School.

DEGREES OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

There has been established within the Faculty of Arts and Sciences a Division of Medical Sciences consisting of members of the Faculty of Medicine and of Arts and Sciences, which is to recommend to the Faculty of Arts and Sciences candidates for the degrees of A.M. and Ph.D. Work in Medical Sciences leading to these degrees may be carried on in several of the laboratories of the Medical School by properly qualified students.

Candidates for the degree of Master of Arts must be Bachelors of Arts of Harvard College, or Bachelors of Arts of other colleges, who shall be recommended by the Faculty of Arts and Sciences. Candidates must pursue an approved course of study in medical science for at least one year.

Candidates for the degree of Doctor of Philosophy must fulfill certain preliminary requirements, must devote to approved advanced studies not less than two years — at least one of which must be spent in residence at this University — and must pass general examinations and present an account of original work in an accepted thesis, before being granted the degree.

Further information concerning these degrees may be obtained from Dr. REID HUNT, Chairman of the Division of Medical Sciences, Harvard Medical School.

FEES AND EXPENSES

DEGREE OF DOCTOR OF MEDICINE

The fees are:—For matriculation, \$5; for instruction (including laboratory charges except breakage, damage and loss of apparatus), \$300 for each year. Tuition will be charged on the term bills in four instalments, as follows:—

One-fourth on a termbill issued and payable September 25.

One-fourth on a termbill issued November 13 and payable November 29.

One-fourth on a termbill issued January 12 and payable January 30.

One fourth on a termbill issued April 12 and payable April 30.

The matriculation fee will be charged on the termbill of September 25. Bills for miscellaneous charges will be rendered at the time the indebtedness is incurred. A deposit of \$50 on or before August 1 is required of every new student who accepts a place in the Medical School; this sum to be applied on his first termbill or to be forfeited if the student does not register.

No degree can be granted until the student has paid the full tuition fee or each year (first, second, third, fourth) in which he has been registered as a member of the School.

Any student whose indebtedness to the University remains unpaid on the date fixed for payment is deprived of the privileges of the University until he is reinstated. Reinstatement is obtained only by consent of the Dean of the Department in which the student is enrolled, after payment of all indebtedness and a reinstatement fee of \$10.

A student may rent a microscope from the School upon application to the Committee on Microscopes, but the School offers no guarantee that it will keep on hand a sufficient number of such instruments to furnish one for each student; students are strongly urged to buy their own microscopes. A deposit of \$1 with the Dean will entitle the student to the use of a locker in the School buildings.

There are no dormitories. Students find rooms in houses near the School, at from \$2.50 to \$7 a week; table board (usually not given at the same house) may be had for about \$7 a week.

STILLMAN INFIRMARY FEE

Not later than October 1 in each academic year, any student may pay to the Bursar the sum of \$5 for the maintenance of the Stillman Infirmary; and, on the order of a physician, every student who has taken advantage of this opportunity will be given, in case of sickness, in return for the fee, a bed in a ward, board, and ordinary nursing for a period not exceeding two weeks in any one academic year.

The Medical School provides a physician to students who will give physical examination or medical treatment without charge during his office hours, from 12 to 1 o'clock on Mondays, Wednesdays, and Fridays, Room 101, Building B II, or at other times by appointment.

BOND REQUIRED OF STUDENTS

Every student is required to file with the Bursar on his entrance to the School a bond of \$50 executed by two sufficient bondsmen (one of whom must be a citizen of the United States), or to deposit \$50 in money, to cover the loss or injury of any property belonging to the University, or for which it is responsible. If the student desires to rent a microscope a bond of \$100 must be filed instead of one of \$50. Blank forms of bonds may be obtained at the Dean's Office or from the Bursar. No officer or student of the University is accepted as a bondsman. *Students will be held responsible for the payment of fees until they have notified the Dean, in writing, of their intention to withdraw from the School and have subsequently received their bond from the Bursar.*

DEGREES OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

For these degrees, a fee of \$250 for tuition in each academic year will be charged on the termbills in four instalments, as follows :—

One-fourth on a termbill issued and payable September 25.

One-fourth on a termbill issued November 13 and payable November 29.

One-fourth on a termbill issued January 12 and payable January 30.

One-fourth on a termbill issued April 12 and payable April 30.

No degree can be conferred until all dues to the University have been discharged.

BUILDINGS AND LABORATORY ADVANTAGES

The Harvard Medical School started as a branch of the University in 1782, when three professorships of medicine were established. The first degrees in medicine were conferred in 1788. Before 1811, the degree conferred was that of Bachelor of Medicine; after that date the degree of Doctor of Medicine was established. The first Medical School was built in Boston in 1815. In 1906, the Medical School moved into its quarters on Longwood Avenue.

The Medical School Buildings occupy eleven acres on Longwood Avenue, Boston, and are five in number: one is designed for administrative and four for laboratory purposes. The administration building contains the necessary offices, several lecture rooms, the Library, and the Warren Anatomical Museum. The laboratory buildings provide extensive accommodations for various departments, grouped in the buildings as follows :— (1) anatomy, comparative anatomy, histology and embryology; (2) physiology, applied physiology, comparative physiology, biological chemistry, theory and practice of physic, surgical pathology and surgery; (3) pa-

thology, bacteriology, neuropathology, and tropical medicine; (4) preventive medicine and hygiene, pharmacology, and comparative pathology.

The laboratory buildings are all constructed on one general plan — two parallel wings united by an amphitheatre. The rooms in the various wings have been designed on a unit system, which greatly simplifies any changes required by growth or by uses other than those for which the rooms were originally designed. These buildings provide an equipment for teaching and research in various branches of medical science which as a whole is probably unequalled.

HOSPITAL FACILITIES

The Medical Department of the University was established in Boston in order to secure for the various clinical subjects those advantages which are found only in large cities. The following clinics and hospitals of Boston are utilized extensively for clinical exercises for medical students, who are admitted freely to the out-patient departments, wards, and operating rooms of these hospitals: —

The Peter Bent Brigham Hospital. — This general hospital has been in active operation since February, 1913. The hospital is for general medical and surgical cases, and is situated on ground adjacent to the Medical School buildings. There are in all 226 beds, and there is a medical and surgical out-patient department which is open for patients throughout the day. Dr. Henry A. Christian, Hersey Professor of the Theory and Practice of Physic, and Dr. Harvey Cushing, Moseley Professor of Surgery, in the Harvard Medical School, have been appointed by the trustees of the Hospital Physician-in-chief and Surgeon-in-chief respectively.

The Collis P. Huntington Memorial Hospital and the J. Collins Warren Laboratory of Bio-Physics. — This Hospital and Laboratory, which have been erected by the Cancer Commission of Harvard University on the Medical School grounds, afford opportunity for the study of human tumor cases, with the advantage of a close approximation of clinical and laboratory facilities. The aim of the hospital is to study special problems with the view of adding to the knowledge of the natural history and the rational treatment of tumors, and also to be of public service in affording means for early diagnosis and in carrying out treatment or giving advice regarding therapeutic measures. Accommodations are provided for 25 in-patients; out-patients are also received at stated hours.

During the past year, 1,635 new patients were treated in the house and out-patient department.

The Massachusetts General Hospital. — During 1921, 6,584 patients were treated in the wards, where there are 358 beds; 11,190 patients

were treated in the Emergency Ward; and there were 169,869 visits to the out-patient departments. Patients are received from all parts of the United States and the Provinces, and are visited by the students, with the attending physicians and surgeons, or demonstrated in the amphitheatres. Operations are numerous, and are performed in the surgical building. Last year there were 3,954 operations in the house and 6,203 in the out-patient department. Clinics are held in the Out-Patient Department in Medicine, Surgery, Children's Medical, Dermatology, Genito-Urinary, Laryngology, Orthopedics, and Syphilis. The following have been established: Anaphylaxis, Arthritis, Cardiac, Convalescent, Dental, Diabetic, Infantile Paralysis, Industrial, Massage, Non-pulmonary Tuberculosis, Nutrition, Posture, Scoliosis, Thyroid, Vaccine Treatment, and X-ray Treatment. Two Dalton scholarships, of \$500 each, are open annually to the house-officers and graduates.

The Boston City Hospital.—During the past year, 21,569 cases were treated in its wards, and 65,019 in its out-patient departments. There were 216,715 visits in its various out-patient departments. The medical wards always contain many cases of acute diseases, and changes are taking place constantly. The opportunities for seeing fractures, injuries, and traumatic cases of all kinds are excellent, since, on an average, 35,000 street accidents are treated yearly. Surgical operations are performed in the amphitheatre. There are special services for diseases of women, of the eye, the ear, the skin, the nervous system, the nose and throat, and the genito-urinary system. Diseases of women and of the nervous system are also largely treated in the out-patient department. Clinical instruction is given by the physicians and surgeons two or more times a week. Capacity of the hospital is 1,209 beds.

Beside the Pathological and X-Ray Laboratories, there is a Laboratory for the study of Haematology, a Laboratory for the study of Asthma, one for the study of Pneumonia, a Renal Function Laboratory for the study of Nephritis and Diabetes, a Department of Physical Therapeutics, a Department of Immunology, and a Dental Department.

In this hospital, the facilities for witnessing Operative Surgery are unsurpassed. Four times a week operations are performed in the presence of the class. The number of these operations is large, reaching over 6,200 a year. The variety is great, embracing every surgical disease and injury, including the surgical operations on the eye and ear.

The Boston City Hospital, South Department.—This hospital is for contagious diseases and occupies a block by itself adjacent to the Boston City Hospital proper. It has a capacity of 334 beds and has abundant material for clinical instruction. Students make ward visits three or more times a week. Instruction in intubation is given here. Last year

there were 2,247 cases treated, of which 793 were scarlet fever and 1,127 were diphtheria.

The Boston Sanatorium. — This is a thoroughly modern hospital of 425 beds for the treatment of tuberculosis, including a special hospital of 60 beds for infants and children. The Hospital affords facilities for the demonstration of all stages and types of the disease as well as the various forms of treatment. The Institution is closely affiliated with the Harvard Medical School. Dr. Locke, Assistant Professor of Medicine, is Chief of Staff, and Dr. Frank Hunt, Instructor in Medicine, is Resident Physician. Under their direction students in the Harvard Medical School will have practical instruction in tuberculosis in the wards of this Hospital.

The Boston Lying-in Hospital. — 1,149 patients received treatment during the last year in the Hospital, of whom 909 were delivered. In the Out-Patient Department, 1,341 cases were attended by the hospital externes, who are appointed from the third and fourth-year students. Clinical instruction is given, in these cases, by the Obstetricians to Out-Patient Department, by the House Physicians, and by the Alumni Assistant. There are 55 beds.

The Boston Dispensary. — Over 160,000 visits were made by out-patients at this institution during the past year. Students have ample and excellent opportunity for seeing practical work in the diagnosis and treatment of cases illustrating the various branches of Medicine and Surgery. The opportunities in children's work are unusually good, as over one-third of the out-patients are children and there is in addition, a well-equipped Hospital for Children, with 30 beds chiefly for medical cases.

Infants' Hospital (Rotch Memorial Building). — The wards of the Hospital are devoted entirely to the medical care of infants. The material of the Hospital is used throughout the year for teaching both students and graduates. There are 50 beds.

The Children's Hospital. — The new buildings of the Hospital are on Longwood Avenue, adjacent to the Harvard Medical School. During the year 1921 5,256 cases were treated in the wards and 47,338 visits were made to the out-patient departments. There are 150 beds. Instruction in pediatrics, surgery and orthopedic surgery is given by members of the hospital staff.

The MacLean Hospital. — A hospital of 220 beds with daily average of 209 patients, situated within easy access of Boston. All types of psychoses are admitted. Advanced methods of treatment are employed, including physical exercise, occupational therapy, massage, hydrotherapy, etc. There are well equipped and active laboratories of chemistry, pathology, and psychology, each in charge of a full-time man, affording excellent oppor-

tunity for research work in any of these fields in immediate connection with the clinical studies and treatment of cases. Emphasis is placed upon correlation of the various laboratories with each other and with the clinical work. There are good special libraries in psychiatry, neurology, and chemistry and a large list of American and foreign journals available. Clinical conferences are held regularly for complete study of all admissions as well as for reviews of literature and discussion of special psychiatric topics. All such facilities together with clinical demonstrations on the wards are open to a limited number of students. Students desiring to do special work should have a preliminary conference with the Superintendent as to plans and needs.

The Boston State Hospital.—During the past year 2,685 patients were under treatment. There are facilities for the special study of cases by students taking elective courses. Besides regular commitments, emergency, voluntary and temporary care cases are received; the whole number of patients received last year was 669, including many instructive examples of the various forms of mental disease. There are 2,120 beds.

Boston Psychopathic Hospital.—This is a state institution for acute, curable, incipient and doubtful cases of mental disease, situated on Fenwood Road, two blocks removed from the Medical School grounds. The hospital was opened to patients in June, 1912. It has 110 beds and receives patients at the rate of about 2,000 a year. This large admission rate insures the presence at all times in the hospital wards of a varied clinical material. The hospital is equipped with psychological, neuropathological and bio-chemical laboratories. The out-patient department receives patients at the rate of 1,500 a year. In addition to the psychoses and neuroses, the clinical material includes cases of mental defect and disorder in childhood, cases of mental instability, and of delinquency, and offers ample opportunity for studying the educational, social, and industrial issues related to psychiatry and the fundamental principles of mental hygiene.

The Massachusetts Charitable Eye and Ear Infirmary.—About 68,000 visits are made yearly by patients in the out-patient department and 6,047 are treated in the wards, affording an opportunity to observe every variety of eye, ear, nose, and throat disease, together with daily operating. The services are so arranged that it is possible easily to follow the patient through his entire course of treatment both in the ward and in the out-patient department. There are 210 beds.

The Free Hospital for Women.—This hospital is devoted exclusively to the surgical treatment of the diseases peculiar to women. The hospital has a capacity of 95 beds. Operations are performed on Tuesdays, Wednesdays, and Thursdays throughout the morning. Physicians and medical

students are invited to attend the operations and the surgical ward visits with the Visiting Surgeon. Out-patient clinics are held every day in the week, beginning at nine o'clock in the morning. The clinics average from 15 to 30 in attendance. Post-graduate courses in gynaecological examinations are given in these clinics. A well-equipped laboratory is connected with the institution, where instruction in gynaecological pathology is given. A library containing the principal works on gynaecology is available for the use of students and visiting physicians.

LIBRARIES

The central library of the School is housed in Charles B. Porter Hall in the Administration Building, and in the other buildings are branch libraries. By an arrangement with the Peter Bent Brigham Hospital the library facilities of the two institutions are combined in the central library. This library is open from 9 A.M. until 10 P.M., on Saturdays from 9 A.M. until 1 P.M. The present number of volumes in the library is 37,378, and in addition there are 74,603 pamphlets and 304 current periodicals kept on file.

The College Library at Cambridge is open to the students of this School.

The Boston Public Library is open to students who are inhabitants of Boston. Students, not inhabitants of Boston, who have filed a bond at the Bursar's office, or deposited with the Bursar the sum of fifty dollars, may also use this library. The Bursar will furnish on application the necessary certificate of bond or deposit.

The Boston Medical Library, No. 8 The Fenway, contains about 110,827 bound volumes and 69,796 pamphlets, and nearly 750 current periodicals are on file. This very valuable library is open to those who desire to consult medical literature, on week days from 9.30 A.M. to 10 P.M., on Saturdays till 6 P.M.

WARREN ANATOMICAL MUSEUM

The Warren Anatomical Museum was founded in 1847 by JOHN COLLINS WARREN, of the College Class of 1797, Adjunct Professor of Anatomy and Surgery from 1809 to 1815, Hersey Professor of Anatomy and Surgery from 1815 to 1847, Professor *Emeritus* from 1847 to his death in 1856, son to JOHN WARREN, the first Hersey Professor of Anatomy and Surgery. This important Museum is open to students in the School, and its collections are used in demonstration of the lectures. It occupies the upper three floors of the Administration Building.

The collection has over eleven thousand specimens, illustrating both normal and pathological anatomy. Students may have access to these specimens at any time upon application to the Curator.

Besides dissections and serial sections of many bones, the anatomical collection includes many corrosion preparations, plaster and papier maché models of bones, organs, and various parts of the body, and frozen sections.

The pathological collection is being constantly enlarged by the addition of numerous specimens, many of them preserved in their natural colors.

The American Ambulance of Paris has contributed a large number of specimens, from the European War, showing the effects of bullet wounds of the head and extremities, and the lesions of "gas gangrene." Also photographs of apparatus and the results of operation. The whole forms a most valuable collection, especially for a student of military surgery.

Exhibits of specimens illustrating topics of special interest are made from time to time.

HOSPITAL APPOINTMENTS

About eighty appointments as internes and assistants are made annually to hospitals in and about Boston for terms of service varying from six months to two years. These appointments are made after a competitive examination.

THE CANCER COMMISSION OF HARVARD UNIVERSITY

The Cancer Commission of Harvard University was founded in 1899, by the late Mrs. Caroline Brewer Croft, who left in her will a sum of money for the investigation of the cause and treatment of cancer. Dr. J. Collins Warren and Dr. Henry K. Oliver were the Trustees of this fund. Since that time other sums have been contributed for cancer research and the Cancer Commission of Harvard University was organized in 1909, consisting of the following members: J. Collins Warren, M.D., Chairman; Henry K. Oliver, M.D., and J. Collins Warren, M.D., for the Caroline Brewer Croft Fund; Henry P. Walcott, M.D., and Arthur T. Cabot, M.D., for the Corporation of Harvard College; William T. Councilman, M.D., and Theobald Smith, M.D., for the Harvard Medical School. To fill the vacancy caused by the death of Dr. Arthur T. Cabot, Dr. Edward H. Bradford was appointed in 1912; on the resignation of Dr. Theobald Smith, Dr. E. E. Tyzzer was appointed in 1916; on the death of Dr. H. K. Oliver, Mr. M. Douglas Flattery was appointed in 1920. Mr. Roger Pierce is Treasurer, Dr. Robert B. Greenough, Director, and Dr. Channing C. Simmons, Secretary of the Commission.

Under this Commission research on cancer problems has been carried on, and eight reports of research work have been published. Investigations were carried on in the laboratories of the Harvard Medical School, and at the Massachusetts General Hospital until April, 1912, when the Collis P.

Huntington Memorial Hospital (page 37) was completed. The work of the Cancer Commission is at present carried on in the laboratories of the Harvard Medical School and in the Huntington Hospital. Robert B. Greenough, M.D., Assistant Professor of Surgery, is Surgeon in charge of the Hospital, and Channing C. Simmons, M.D., is Surgeon; George R. Minot, M.D., is Physician; Henry A. Christian, M.D., and Francis W. Peabody, M.D., are Consulting Physicians; D. Crosby Greene, M.D., is Laryngologist; George Gilbert Smith, M.D., is Urological Surgeon; George A. Leland, M.D., is Surgeon to Out-Patient Department; Thomas E. Buckman, M.D., is Assistant Physician; Ernest M. Daland, M.D., is Assistant Surgeon to Out-Patient Department; and J. Homer Wright, M.D., is Pathologist in Charge of Diagnosis Service. Miss Anna Gibson is Matron and Superintendent of the Hospital.

William Duane, Ph.D., Professor of Bio-physics, is Research Fellow of the Cancer Commission in charge of the research work on radium and radioactive substances, and their preparation for therapeutic use. William T. Bovie, Ph.D., Assistant Professor of Biophysics, is Research Fellow in Biology in charge of the research laboratories on the biological effects of radiation and biophysical problems connected with malignant growths; Ernest W. Goodpasture, M.D., Research Fellow in Pathology; Henry Lyman, M.D., in Chemistry.

HARVARD INFANTILE PARALYSIS COMMISSION

A Commission for the purpose of assisting in the early recognition, treatment, and study of infantile paralysis was appointed by the Corporation September 25, 1916. The membership of the Commission was increased in 1922, and is composed of the following persons: Robert W. Lovett, M.D., S. Parker Bremer, Horatio A. Lamb, James J. Minot, Jr. (*Secretary*), W. Rodman Peabody, Roger Pierce (*Treasurer*), Milton J. Rosenau, M.D., Oscar M. Schloss, M.D., Charles H. Taylor.

The Harvard Infantile Paralysis Commission shortly after it was established was appointed agent of the State Department of Health, thereby assuring coöperation between the Commission and the Commonwealth. This action widely increased the purposes and also the responsibilities of the Commission, in that it at once took cognizance of the disease and its after-effects throughout the state.

The work of the Commission has been carried on since 1916 in conjunction with various clinics in different parts of the state. Clinics for the care of paralytics are established at the Children's Hospital and at the Massachusetts General Hospital, and coöperation has been effected with other hospitals and with other agencies throughout the State.

The work of the Commission is supported entirely by public subscription.

TROPICAL MEDICINE

Courses in tropical medicine formerly offered by the Medical School are now offered by the School of Public Health.*

INDUSTRIAL HYGIENE

Courses in Industrial Hygiene, formerly offered by the Medical School, will now be offered by the School of Public Health.*

COURSES FOR GRADUATES

The object of this Division of the Medical School is to offer graduates in Medicine opportunities to continue their studies in a thorough and scientific manner.

While all courses are intended primarily for those who hold degrees from recognized medical schools, certain courses in the scientific subjects are adapted to the needs of advanced students and teachers of science. Such persons may be admitted to courses on the approval of the Advisory Committee.

Undergraduate students of medicine may be admitted to such courses as they are qualified to take. Special consideration for the needs of such students will be given in the plans for summer courses.

Laboratory facilities at the Harvard Medical School and the abundant clinical opportunities in the various hospitals are available for graduate instruction. Clinical and laboratory instruction will be conducted in small classes so that students may receive personal attention.

The fees for separate courses vary according to the nature of the instruction and the duration of the course. An extra fee is required for the use of material in laboratory, dissecting, and operative courses. A Registration Fee is charged each student, except in the case of certain special courses, and the Registration Fee entitles a student to register for any number of courses for the period of one year.

All fees are payable in advance at the Harvard Trust Company, Cambridge, in accordance with bills rendered by the Office of the Assistant Dean in Charge of Graduate Courses, Room 204, Administration Building of the Harvard Medical School.

* Office at 240 Longwood Ave., Building A, Room 108.

FELLOWSHIPS AND SCHOLARSHIPS

FELLOWSHIPS

BULLARD FELLOWSHIPS. In 1891, WILLIAM STORY BULLARD, of Boston, gave the sum of fifteen thousand dollars for the establishment of three fellowships of five thousand dollars each "in memory of three physicians who were distinguished for their honorable personal character and for their professional services in this community." Accordingly the three following fellowships were established:—

THE GEORGE CHEYNE SHATTUCK MEMORIAL FELLOWSHIP.

THE JOHN WARE MEMORIAL FELLOWSHIP.

THE CHARLES ELIOT WARE MEMORIAL FELLOWSHIP.

The income of the first two is two hundred and seventy-five dollars each, and of the last, three hundred dollars.

The income from any one or all of these fellowships may be paid to any student or member of the medical profession who shall be selected by the Administrative Board of the Medical School to make such original investigations in Medical Science as in their opinion will be most useful to the profession and to the community. The results of such investigations shall not, however, be published as a research performed under the grant of a Bullard Fellowship, unless the work shall have received the approval of the Committee. If published with the approval of the Committee, mention shall be made of the fact that the work was done under a Bullard Fellowship.

Holders of Bullard Fellowships are required to do an amount of work equivalent to not less than ten hours a week throughout the academic year and to present to the Committee at the end of the academic year a report on the amount and result of the work performed.

Applications for the Bullard Fellowships must be handed to the Dean on or before May 1.

EDWARD HICKLING BRADFORD FELLOWSHIP. In 1918, an anonymous donor gave \$25,000 for the establishment of a fellowship in medical research to be known as the Edward Hickling Bradford Fellowship. The Fellowship may be used for research or instruction separately or in connection with any other foundation in such manner as the Corporation may from time to time prescribe. Applications for this Fellowship must be in the hands of the Dean on or before May 1st.

THE JAMES JACKSON CABOT FELLOWSHIP; with an income of five hundred dollars. In 1906, Arthur T. Cabot, Samuel Cabot, and Guy C. Cabot gave six thousand dollars to establish the James Jackson Cabot Fund in the Medical School. In 1912 Guy C. Cabot added four thousand dollars

to this fund. The income remaining after adding a certain percentage to the principal each year is preferably, but not necessarily, to be used for a fellowship "to aid and encourage practical work in scientific medicine."

CHARLES FOLLEN FOLSOM TEACHING FELLOWSHIP. In 1908 eleven thousand eight hundred and forty-three dollars and sixty-four cents was given by more than sixty persons in memory of Charles Follen Folsom, A.B. 1862, M.D. 1870, Lecturer on Hygiene, 1877-79, on Hygiene and Mental Diseases, 1879-80, on Mental Diseases, 1880-82; Assistant Professor of Mental Diseases, 1882-85, and Overseer, 1891-1903. It was the desire of the givers that there be established in the Medical School a Charles Follen Folsom Teaching Fellowship in Hygiene or in Mental and Nervous Diseases, and that the incumbent receive the annual income of the fund, or such part of it as may be consistent with the standing rules of the Corporation in such cases. This fellowship, with an income of six hundred and twenty-five dollars, has been assigned to the Department of Hygiene until the further order of the President and Fellows.

HENRY P. WALCOTT FELLOWSHIP IN CLINICAL MEDICINE; with a stipend of one thousand six hundred and fifty dollars. Founded in 1910 by Frederick Cheever Shattuck, A.M., M.D., LL.D. "The income to provide for the support of a Fellow in Clinical Medicine, who shall receive his appointment from the Corporation on nomination by the Jackson Professor of Clinical Medicine, who, while the holder of the Fellowship, shall not engage in private practice but devote his time to teaching and clinical research work."

WILLIAM O. MOSELEY, JR., TRAVELLING FELLOWSHIPS; two, with a stipend of two thousand three hundred and twenty-five dollars each, for the purpose of studying medicine in Europe. In January, 1912, Mrs. William O. Moseley left a bequest of seventy-four thousand dollars to establish two travelling Fellowships, to be granted annually to two men who have attended the Harvard Medical School for three or four years, and who have given evidence of their diligence and ability, the election of such men to be made by the President and proper officers connected with the Medical School. Applications for these Fellowships must be handed to the Dean on or before May 1st.

ARTHUR TRACY CABOT FELLOWSHIP. In 1913, Dr. and Mrs. Frederick C. Shattuck gave twenty-five thousand dollars for the establishment of a Fellowship in Surgery in memory of Arthur Tracy Cabot, M.D., of the Class of 1872, Fellow of the Corporation. The holder of the Fellowship is not ordinarily to engage in active private practice while holding it but to devote himself to the advancement of Surgery whether in the United States or elsewhere. The nomination to this Fellowship is by preference to be in the hands of the Moseley Professor of Surgery.

AUSTIN FELLOWSHIPS. A certain number of teaching fellowships, of seven hundred and fifty dollars each, have been established from the income of the Austin Fund and assigned to the Medical School.

THE JOHN WHITE BROWNE SCHOLARSHIP; with an income of nine hundred and fifty dollars. Established under the will of Mrs. Francis B. Greene in 1918. By vote of the President and Fellows of Harvard College, this scholarship is to be awarded by the Dean of the Medical School to a student of unusual promise, to enable him to pursue research investigations for a year at the Harvard Medical School or elsewhere.

SCHOLARSHIPS

The Cheever, Haven, and Mears Scholarships are awarded to students of the first-year class. The Hayden and Webster Scholarships may be so awarded. All the other scholarships are awarded to members of the three upper classes.

For students paying the tuition fee of three hundred dollars each scholarship will be increased by seventy-five dollars in cases where the stipend to be awarded is of a stated amount.

EDWARD M. BARRINGER SCHOLARSHIPS. From the estate of Edward M. Barringer, of Schenectady, N. Y., thirty thousand two hundred and thirteen dollars and forty-nine cents has been received as his residuary bequest establishing the "Edward M. Barringer fund." "And I direct that the said 'President and Fellows' forever maintain from the income of said rest and residue (if the same shall be sufficient) two scholarships for students in said Medical School, the annual amount or value of such scholarships to be fixed from time to time by the said President and Fellows in their best discretion but at not less than \$300 and \$200 respectively; and with such conditions as to them shall seem best, to be called respectively 'Edward M. Barringer Scholarship No. 1,' and 'Edward M. Barringer Scholarship No. 2.'" These scholarships, with the incomes named above, are awarded to deserving students, preferably those of the fourth class.

THE GORDON BARTLETT SCHOLARSHIP; with an income of three hundred and fifty dollars. Established in 1919 by Mr. and Mrs. Donald Gordon in memory of their nephew, Gordon Bartlett, a student at Dartmouth College who was preparing to enter the Harvard Medical School and died of wounds at St. Mihiel while serving in the Seventeenth Field Artillery. To be used to assist undergraduates or graduates of the Harvard Medical School in such manner as the Faculty may determine, preference being given to graduates of Dartmouth College. This scholarship will ordinarily be divided between two men. Application should be made to the Dean, on or before May 1.

THE MATTHEW AND MARY E. BARTLETT SCHOLARSHIP, with an income of four hundred and twenty-five dollars, was founded by Miss Fannie Bartlett of Boston, in memory of Matthew and Mary E. Bartlett, for the benefit of a worthy and meritorious student who is in need of financial assistance.

LUCIUS F. BILLINGS SCHOLARSHIP, with an income of two hundred and fifty dollars, was founded in 1900 from a bequest under the will of Lucius F. Billings. The income may be divided between two or more students.

DAVID WILLIAMS CHEEVER SCHOLARSHIP, with an income of two hundred and seventy-five dollars, was founded in 1889 by David Williams Cheever, M.D., LL.D., of Boston, of the Class of 1852. It is to be awarded to a poor and meritorious student of the first year, after three months' probation in the Medical School.

ORLANDO W. DOE SCHOLARSHIP. The bequest of ORLANDO WITHER-SPON DOE (A.B. 1865, M.D. 1869) was five thousand dollars. One-half of the income derived therefrom, amounting to one hundred and fifty dollars, "is to be given annually as a scholarship to a deserving student in the Medical department."

JOSEPH EVELETH SCHOLARSHIPS. Three Scholarships with an annual income of two hundred dollars each. Founded from the residuary bequest of thirty-seven thousand eight hundred and ninety-seven dollars and fourteen cents, made by Joseph Eveleth, of Boston, "for aiding deserving and indigent young men in obtaining an education in said College or any of the schools connected therewith." Three Scholarships on this foundation have been assigned to the Harvard Medical School.

HORACE PUTNAM FARNHAM SCHOLARSHIPS. Two Scholarships with an income of two hundred and twenty-five dollars each. Founded in 1918 from a bequest under the will of Mrs. Horace Putnam Farnham as a memorial to her husband, for the benefit of meritorious students of limited pecuniary resources in the Harvard Medical School.

GEORGE HAVEN SCHOLARSHIPS, with an income of twelve hundred and fifty dollars, were founded in 1913 from a bequest under the will of George Haven, the income to be used annually for scholarships to deserving students of the first year in the Medical School, the amount of such scholarships to be at the discretion of the Scholarship Committee.

THE LEWIS AND HARRIET HAYDEN SCHOLARSHIP for colored students was founded in 1894 from a bequest of Mrs. Harriet Hayden. The income, two hundred and seventy-five dollars, may be divided between two or more students.

HILTON SCHOLARSHIPS. Two Scholarships, with an income of two hundred and twenty-five dollars each, were founded in 1897 from a bequest of William Hilton.

WILLIAM OTIS JOHNSON SCHOLARSHIP, with an income of two hundred dollars, was founded in 1912 from a bequest under the will of Mrs. William O. Johnson, in memory of her husband, William Otis Johnson, M.D., of the Class of 1845.

CLAUDIUS M. JONES SCHOLARSHIP, with an income of three hundred and twenty-five dollars, is from a bequest of six thousand dollars by Claudius Marcellus Jones, of the Class of 1866, M.D. 1875.

ALFRED HOSMER LINDER SCHOLARSHIP, with an income of two hundred and seventy-five dollars, was founded in 1895 by Mrs. George Linder. It is to be awarded to a needy student who shall have proven himself to be of sound principles and marked ability.

JAMES EWING MEARS, M.D., SCHOLARSHIP IN MEDICINE. In 1920 a bequest from the estate of J. Ewing Mears established a scholarship in the Medical School in continuance of one which Dr. Mears gave during his life. The stipend is two hundred dollars, and is to be awarded to a young man whose financial resources are such that he cannot, unaided, acquire a medical education; the beneficiary shall hold the scholarship for the full course of four years, subject to his standing in scholarship and his good conduct.

The JOSEPH PEARSON OLIVER SCHOLARSHIP, with an income of four hundred and twenty-five dollars, was founded in 1904 by patients of the late Joseph Pearson Oliver, M.D. 1871, to be awarded "to such needy and deserving student of the Medical School as the Administrative Board shall annually recommend."

CHARLES B. PORTER SCHOLARSHIP, with an income of two hundred and seventy-five dollars, was founded in 1897 from a bequest of five thousand dollars by William L. Chase.

FLAVIUS SEARLE SCHOLARSHIP, with an income of two hundred dollars, established in 1921 from a bequest of Mrs. Mary L. Searle of Boston, in memory of her father, Dr. Flavius Searle.

CHARLES PRATT STRONG SCHOLARSHIP, with an income of two hundred and fifty dollars, was founded in 1894 by friends and patients of the late Charles Pratt Strong, of the Class of 1876, M.D. 1881.

ISAAC SWEETSER SCHOLARSHIP, with an income of three hundred and twenty-five dollars at present, was founded in 1892 by Mrs. Anne M. Sweetser. The income is to be "devoted to the aid of poor students of

ability who would not otherwise be able to continue the studies necessary for their profession."

The JOHN THOMSON TAYLOR SCHOLARSHIP, with an income of two hundred and fifty dollars, was founded in 1899 by Mrs. Frederic D. Philips in memory of her brother, John Thomson Taylor, who died in 1889. He was a student of the Medical School from 1887 to 1889.

Major HARRISON BRIGGS WEBSTER, U. S. ARMY, SCHOLARSHIP, with an income of two hundred and fifty dollars. A fund of five thousand dollars was established in 1921 by Mrs. L. Florence Webster in memory of her son, Harrison Briggs Webster of the Class of 1905, Harvard College, 1909, Harvard Medical School, Regimental Surgeon of the 47th U. S. Infantry, 4th Divison, A. E. F., awarded a Citation "For unusually conspicuous and meritorious services," and a second Citation, with the Distinguished Service Cross, "For extraordinary heroism in action." Killed in action in the Meuse-Argonne, October 13, 1918. This Scholarship is to be awarded to sons of members of the Class of 1905, Harvard College. In case there is no application or award made in any year, the Scholarship shall be awarded for that year only by the Administrative Board of the Medical School to a needy student who shall have shown himself to be of sound principles and marked ability.

EDWARD WIGGLESWORTH SCHOLARSHIP, with an income of two hundred and seventy-five dollars, was founded in 1897 by the family of the late Edward Wigglesworth, of the Class of 1861, M.D. 1865, the yearly income of the fund to be paid to a needy and deserving student of the Medical School whom the Administrative Board shall recommend.

FRANCIS SKINNER FUND. A fund of five thousand dollars was established in 1905, the income of which shall be placed at the disposal of the Dean of the Medical School to be used by him in small sums to meet the urgent needs of meritorious students in the payment of term-bills or other expenses. Two hundred and fifty dollars is available annually.

This fund remained as an anonymous gift until 1908, when by vote of the President and Fellows of Harvard College it was named the Francis Skinner Fund in honor of the late Francis Skinner, Esq., the donor.

COTTING GIFT. The income of a fund received from the late Dr. Benjamin E. Cotting will be given to such medical student or students as the Administrative Board may select, having regard to the pecuniary needs, intellectual capacity, faithfulness and earnest endeavor, rather than to highest scholarship merely. The amount to be awarded annually will be one hundred and fifty dollars.

JOHN FOSTER FUND. The income of the John Foster Fund, amounting to about one hundred and fifty dollars, is available in alternate years in the Law School and in the Medical School, for one or more meritorious students needing assistance. The next assignment in the Medical School will be made in 1924.

THE LOAN FUND OF THE MEDICAL CLASS OF 1879. The Medical Class of 1879 has given the sum of four hundred and thirty-six dollars and seventy-nine cents to be used as a loan fund to aid any student or students in the Medical School in accordance with the request of the Class, or, in the absence of such request, under the direction of the Faculty of Medicine.

These scholarships and gratuities are awarded to such men among those applying for and needing assistance as give evidence of having done the best work either in this School or in a preparatory course elsewhere.

Students who have not been able to obtain scholarships often find time and opportunity to do outside work of various kinds in the city.

Information with regard to all forms of pecuniary aid may be obtained from the Director of Scholarships. The Director will aid deserving students in obtaining work. Certain loan funds not enumerated above are at his disposal. Students requiring aid should visit the Director as soon as possible to discuss with him their financial needs. The Director will also act in advisory capacity with the students in any matters not intimately associated with the curriculum.

Third-year students may apply for scholarships in January; second-year students, in February; first-year students, in March. All applications must be made before *May 1*.

Applications for the Cheever, Hayden, and Haven Scholarships must be handed to the Director of Scholarships on or before *December 9th*. These scholarships are open only to students who are members of the School at the time of application.

Blank forms, on which all applications for pecuniary aid must be made, may be obtained of the Director of Scholarships.

Fellowships and Scholarships available in other Departments of the University as well as in the Medical School

Applications should be made to Dean L. B. R. BRIGGS, the chairman of the Committee on General Scholarships and on the Sheldon Fund.

THE FREDERICK SHELDON FUND FOR TRAVELLING FELLOWSHIPS AND SCHOLARSHIPS. The income of this Fund is available for holders of any degree from Harvard University. For further particulars, see University Catalogue for 1919-20.

THE VICTOR EMANUEL CHAPMAN MEMORIAL FELLOWSHIP; with an income at present of sixteen hundred and fifty dollars. Founded in 1917 by a number of persons who gave jointly the sum of approximately twenty-five thousand dollars in memory of VICTOR EMANUEL CHAPMAN, of New York, of the Class of 1913, who was killed in action over Verdun, June 23, 1916, while a member of the Flying Corps of the French Army. This fellowship is to be assigned to a French youth (or youths) for study in some department of Harvard University. For further particulars, see page 621, University Catalogue.

THE DANIEL A. BUCKLEY SCHOLARSHIPS; with an income of two hundred dollars each, for graduates of the public schools of the city of Cambridge.

THE CHARLES ELLIOTT PERKINS SCHOLARSHIP; with an income of four hundred dollars, "to be offered each year to a graduate of an Iowa College or University, in any of the graduate or professional departments of Harvard University." The terms of gift are quoted further in the University Catalogue for 1919-20.

THE JAMES A. RUMRILL SCHOLARSHIP; with an income at present of two hundred and twenty-five dollars. This Scholarship, founded in 1909 by Mrs. JAMES A. RUMRILL, in memory of her husband, JAMES AUGUSTUS RUMRILL, of Springfield, Mass., of the Class of 1859, will be offered each year to a properly qualified graduate of a college or university in Virginia, North Carolina, South Carolina, Florida, Georgia, Tennessee or Kentucky. The terms of gift are quoted further in the University Catalogue for 1918-19.

THE PRINCETON FELLOWSHIP; with a stipend of five hundred dollars. From a graduate of Princeton University, to be awarded to a graduate of that University studying in any department of Harvard University.

THE WILLIAM STANISLAUS MURPHY SCHOLARSHIPS; with an income of two hundred and fifty dollars each, founded by WILLIAM STANISLAUS MURPHY, of the class of 1885, to be used for the collegiate education of men of the name of Murphy, who, in the judgment of the faculty prove deserving of this kind of encouragement. These scholarships are available for students in all departments of the University.

THE JOSEPH HODGES CHOATE MEMORIAL FELLOWSHIP; with an income of two thousand dollars. Established in 1919 by the Harvard Club of New York City in memory of JOSEPH HODGES CHOATE, of the Class of 1852, American Ambassador to Great Britain from 1899 to 1905. To be awarded, upon the nomination of the Vice-Chancellor of the University of Cambridge, England, to a British subject coming from the University of Cambridge to study in any department of Harvard University. The terms at present require that the candidate shall be either a Bachelor of

Arts of not more than three years' standing from the time of taking his degree, or a matriculated undergraduate of not more than three years' standing from the date of his matriculation.

PRIZES

BOYLSTON MEDICAL PRIZES. These prizes, which are *open to public competition*, are offered for the best dissertation on questions in medical science proposed by the Boylston Medical Committee.

At the annual meeting held in Boston in 1920 a prize of three hundred dollars was awarded to an essay entitled "Acute Inflammation of the Nose, Pharynx and Tonsils" by Mr. Stuart Mudd of St. Louis, a member of the Senior Class of the Harvard Medical School.

For 1922 there is offered a prize of three hundred dollars and the Boylston Prize Medal, for the best dissertation on the results of original research in medicine, the subject to be chosen by the writer. The Boylston Prize Medal will be added to the money prize only in case the winning essay shows special originality in the investigations detailed.

Dissertations entered for this prize must be in the hands of the Secretary, Harvard Medical School, Boston, Mass., on or before December 31, 1922.

In awarding these prizes, preference will be given to dissertations which exhibit original work, but if no dissertation is considered worthy of a prize, the award may be withheld.

Each dissertation must bear, in place of the author's name, some sentence or device, and must be accompanied by a sealed packet, bearing the same sentence or device, and containing the author's name and residence.

Any clew by which the authorship of a dissertation is made known to the Committee will debar such dissertation from competition.

Dissertations must be printed or typewritten, and their pages must be bound in book form.

All unsuccessful dissertations are deposited with the Secretary, from whom they may be obtained, with the sealed packet unopened, if called for within *one year* after they have been received.

By an order adopted in 1826, the Secretary was directed to publish annually the following votes:—

1. That the Board does not consider itself as approving the doctrines contained in any of the dissertations to which premiums may be adjudged.
2. That, in case of publication of a successful dissertation, the author be considered as bound to print the above vote in connection therewith.

The Boylston Medical Committee is appointed by the President and Fellows of Harvard College, and consists of the following physicians: REID HUNT, M.D., *Secretary*; WILLIAM T. PORTER, M.D., ROBERT W. LOVETT, M.D., HENRY A. CHRISTIAN, M.D., JOHN WARREN, M.D., HENRY LYMAN, M.D.

The address of the *Secretary* of the Boylston Medical Committee is Harvard Medical School, Boston, Mass.

OTOLOGICAL PRIZE. For the best preparation illustrating the osseous anatomy of the ear or for the best thesis showing original work on an otological subject, a prize of twenty-five dollars is offered, open to fourth-year students.

M. DOUGLAS FLATTERY PRIZE FUND. The income of this fund is to be used for the purpose of giving a Gold Medal and five hundred dollars in cash to the person who may be judged by the President and Fellows to have made a discovery in any branch of science that would result in the greatest good to humanity in the direction of the prevention of disease or the conservation of health in their broadest sense.

In 1920 this medal and prize were awarded to Dr. THEOBALD SMITH.

OTHER PRIZES. The Bowdoin, Dante, Sumner, and Toppan Prizes, offered by the Faculty of Arts and Sciences, are open to students in all departments of the University. Full particulars in regard to these prizes may be found in the University Catalogue for 1921-22.

DIVISION OF STUDIES
AND TOTAL NUMBER OF HOURS FOR EACH SUBJECT

FIRST YEAR		SECOND YEAR		THIRD YEAR*		FOURTH YEAR* <i>Programme for 1922-23 only</i>	
Anatomy	220	Anatomy	40	Psychiatry	46	Elective	216
Histology and Embryology	220	Bacteriology	144	Preventive Medicine and Hygiene	36	Otology	44
Physiology	232	Pathology	{ 304 }	Legal Medicine	8	Ophthalmology	44
Biochemistry	232	Neuropathology	36	Dermatology	46	Gynaecology	36
Medical Psychology	10	Parasitology	104	Syphilology	38	Laryngology	36
		Pharmacology	90	Gynaecology	38	Pediatrics	144
		Clinical Pathology	161	Laryngology	38	Medicine†	288
		Medicine	{ 161 }	Pediatrics	61	Orthopedic Surgery	72
		Surgery	10	Medicine	196	Surgery†	144
		Neurology	12	Orthopedic Surgery	42	Obstetrics	144
		Obstetrics	6	Genito-Urinary Surgery	30		
		Pediatrics		Surgery	157		
				Neurology	38		
				Obstetrics	62		
				Otology	38		
				Ophthalmology	38		

* In 1923-24 the fourth-year students, having followed the third-year programme here outlined, will omit the specialties now required in the fourth year.

† The time allotment for these two subjects may be reversed at the student's option.

ANNOUNCEMENT OF COURSES

The "Announcement of Courses" comprises a statement by each Department as to its general plan of instruction and its various required exercises, followed by a resumé of the Fourth-Year Elective Courses and the Voluntary Courses.

Each student in the fourth year must secure credit for eight one-month courses of 144 hours or their equivalent. Required courses fill six and a half months' time, leaving one and a half months free for Elective Courses. Students may anticipate certain of the required courses during the summer preceding the fourth year and thus gain more time for elective work in the fourth year. In the following statements whole courses have a value of 144 hours, half-courses of 72 hours, and quarter-courses of 36 hours.

With the inauguration of the new schedules, leaving Tuesday and Thursday afternoons free for second- and third-year students, certain Voluntary Courses are offered. It is believed that upper-classmen will welcome a chance to keep in touch with the most recent developments in the fundamental sciences; that an interest in certain fundamental subjects will have been aroused by their clinical work; or that they may feel the desire for additional training on some point. Students are not required or even asked to take these courses: it is entirely a voluntary matter, and no credit will be given.

Pamphlets describing the Elective and the Voluntary Courses in detail and outlining the special conditions under which they may be taken, are issued to the students each spring.

Anatomy

JOHN L. BREMER, M.D., *Associate Professor of Histology.*

FREDERIC T. LEWIS, M.D., *Associate Professor of Embryology.*

JOHN WARREN, M.D., *Associate Professor of Anatomy.*

Z. BOYLSTON ADAMS, M.D., *Associate in Anatomy.*

DAVID CHEEVER, M.D., *Associate in Anatomy.*

HARRIS P. MOSHER, M.D., *Associate in Anatomy.*

STANLEY COBB, M.D., *Associate in Anatomy.*

ROBERT M. GREEN, M.D., *Instructor in Anatomy.*

SAMUEL R. MEAKER, M.D., *Instructor in Histology.*

ALBERT A. SHAPIRA, M.D., *Instructor in Anatomy.*

FRANK A. HAMILTON, M.D., *Assistant in Anatomy.*

TORR W. HARMER, M.D., *Assistant in Anatomy.*

REGINALD D. MARGESON, M.D., *Assistant in Anatomy.*

WILLIAM R. MORRISON, M.D., *Assistant in Anatomy.*

DONALD MUNRO, M.D., *Assistant in Anatomy.*

JOHN G. DOWNING, M.D., *Teaching Fellow in Histology.*

— — —, *Austin Teaching Fellow in Histology.*

GEORGE F. SYKES, Ph.B., A.M., *Teaching Fellow in Histology.*

COMPARATIVE ANATOMY

— — —, *James Stillman Professor of Comparative Anatomy.*

EDWARD A. BOYDEN, Ph.D., *Assistant Professor of Comparative Anatomy.*

— — —, *Assistant in Comparative Anatomy.*

In the department of Anatomy instruction is given in Anatomy, Comparative Anatomy, Histology and Embryology. The department occupies the Morgan Anatomical Building, the dissecting rooms being in the wing designated B I, and the laboratories for Histology, Embryology, and Comparative Anatomy in the wing B II. There are separate rooms for second-year, fourth-year and graduate students and for various kinds of technical work. The class work is carried on by sections in unit rooms, designed to accommodate either twelve or twenty-four students. There is a large library which contains complete files of the most important anatomical and morphological journals, together with many standard works of reference, and in an adjoining room there is a collection of about ten thousand pamphlets. A card catalogue and a classified bibliography give ready access to the literature.

The laboratory offers exceptional facilities for work in human and comparative anatomy and embryology.

The Embryological Collection is a unique feature of the laboratory. It comprises over two thousand series of sections of carefully selected vertebrate embryos, and affords therefore opportunities for research in comparative embryology such as cannot be found elsewhere. The collection includes eighty series of sections of human embryos, several

Note. — Abbreviations used in the following pages, and in the tabular views:

B.C.H.	= Boston City Hospital.	I.H.	= Infants' Hospital (Rotch Memorial).
B.S.	= Boston Sanatorium.	McL.H.	= McLean Hospital.
B.D.	= Boston Dispensary.	M.G.H.	= Massachusetts General Hospital.
B.S.H.	= Boston State Hospital (Pierce and Austin Farms).	P.B.B.H.	= Peter Bent Brigham Hospital.
B.L.H.	= Boston Lying-in Hospital.	B.P.H.	= Boston Psychopathic Hospital.
C.H.	= Children's Hospital.	S.D.B.C.H.	= South Department, Boston City Hospital.
E. and E.I.	= Massachusetts Charitable Eye and Ear Infirmary.	S.O.P.D.	= Surgical Out-Patient Department.
F.H. for W.	= Free Hospital for Women.		
H.M.S.	= Harvard Medical School.		
H.M.H.	= Huntington Memorial Hospital.		

of which are of exceptional value, among them being two of the very youngest stages of man yet obtained. The collection of embryological models contains the standard series and many unique original models.

REQUIRED COURSES

First Year. — The courses of the first year are intended to teach human anatomy, both gross and microscopic, together with the essentials of human embryology. Half of the time is devoted to work in the dissecting room, the other half to work in the histological and embryological laboratories. In the study of gross anatomy, each student makes a complete dissection of one-half of the human body, and all of the class dissect the same part at the same time. Two men will be assigned to the same subject, and will work together during the course. The study of the skeleton is carried on with the dissection, and each student will be provided with a box of bones which may be kept throughout the course. There will be daily lectures or demonstrations which are arranged to correspond as closely as possible with the work in the dissecting room. These lectures not only will serve as a guide to the regular work in the dissecting room, but also will be used to emphasize those details of human anatomy which the student cannot easily study for himself in his own dissection. Special dissections made by prosectors from the second-year class, frozen sections, and various anatomical specimens and preparations will be displayed each day to illustrate and supplement that part of the subject treated in the lecture, or about to be studied in the dissecting room. Students are urged to examine these specimens carefully, and to discuss them informally with the instructors. Students will be quizzed each week on their work in the laboratory by the instructors in charge of their section. There will also be a certain number of written tests and one or two oral practical examinations before the final examination.

The part of the course dealing with microscopic anatomy is a study of cells, tissues, and organs, from the developmental standpoint. Cell structure and the fundamental tissues are considered first. This is followed by a study of chick embryos of 30 and 48 hours and pig embryos of 40 days, in which special stress is laid on the origin and growth of the different organs. During the remainder of the course the organs of the adult are studied in succession. In connection with the uterus, the human placenta and fetal membranes are considered. The month of January is devoted to the central nervous system and sense organs.

Microscopes. — Every student is strongly urged to purchase a microscope, which is a necessity in this and other courses in the School, and constantly useful in later years. The instructors will gladly advise students in regard

to such purchases. Those not thus provided may rent microscopes for the course, but the School offers no guarantee that it will keep on hand a sufficient number of such instruments to furnish one for each student.

Second Year. — The course in second-year anatomy begins on the first of February and lasts for nine weeks. The class will be divided into three sections, and each section will have approximately four hours per week. The work will consist chiefly of the careful study and drawing of selected frozen sections of the human body. Anatomical charts, special dissections, and preparations will be displayed in the laboratory to illustrate the various structures seen in the sections. The drawings are to be handed in at frequent intervals for correction, and they will be discussed with each student. There will be also frequent informal, individual quizzes and discussions as the work progresses.

The course is intended to serve as a topographical review of the work of the first year, and to lead to a close correlation of anatomy and the clinical courses in physical diagnosis. There will be a final written examination which will cover the work in both the first and second year courses in anatomy.

FIRST YEAR

HOURS

Lectures. Drs. BREMER and LEWIS and WARREN. <i>Six lectures a week, first half-year.</i>	96
Demonstrations. <i>To sections of the class, at the pleasure of the instructors.</i>	
Laboratory work. <i>Twenty-one and a half hours a week, first half-year.</i>	344

SECOND YEAR

Laboratory work to sections of the class, <i>two and one-half hours per week, first half-year.</i>	40
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FOURTH-YEAR ELECTIVE COURSES

- ANATOMY 1. Surgical Anatomy. Dr. CHEEVER and assistants. Whole courses, afternoons, October-November and February-March.
- ANATOMY 2. Comparative Anatomy. Dr. BOYDEN and assistants. Half-courses, mornings of November and December.
- ANATOMY 3. Advanced Vertebrate Embryology. Dr. LEWIS. Whole course, all day, in a month to be arranged with the student.
- ANATOMY 4. Advanced Histology. Dr. BREMER. Whole course, all day, in a month to be arranged with the student.
- ANATOMY 5. Physical Anthropology. Dr. E. A. HOOTON. Whole courses, to be arranged with the student.
- INVESTIGATION. Opportunities are offered for students who wish to do special or advanced work.

VOLUNTARY COURSES

EMBRYOLOGY AND ANATOMY OF THE CENTRAL NERVOUS SYSTEM. Tuesdays and Thursdays, 2 to 4 P.M., October.

ADVANCED WORK. Opportunities are offered for advanced work or research in embryology, histology, or (in so far as material will permit) anatomy. Tuesday and Thursday afternoons.

The Laboratories of Physiology

PHYSIOLOGY

WALTER B. CANNON, M.D., *George Higginson Professor of Physiology.*

PERCY G. STILES, PH.D., *Assistant Professor of Physiology.*

ALEXANDER FORBES, M.D., *Associate Professor of Physiology.*

ALFRED C. REDFIELD, PH.D., *Assistant Professor of Physiology, Chairman of the Laboratories.*

FRED R. GRIFFITH, A.M., *Instructor in Physiology.*

HENRY O. VEACH, B.S., *Teaching Fellow in Physiology.*

CLARENCE J. CAMPBELL, M.D., *Teaching Fellow in Physiology.*

— — —, *Teaching Fellow in Physiology.*

COMPARATIVE PHYSIOLOGY

WILLIAM T. PORTER, M.D., LL.D., S.D., *Professor of Comparative Physiology.*

APPLIED PHYSIOLOGY

CECIL K. DRINKER, M.D., *Associate Professor of Applied Physiology.*

JOSEPH C. AUB, M.D., *Assistant Professor of Applied Physiology.*

PHILIP DRINKER, B.S., CH.E., *Instructor in Applied Physiology.*

LAWRENCE T. FAIRHALL, PH.D., *Instructor in Applied Physiology.*

GEORGE B. RAY, PH.D., *Instructor in Applied Physiology.*

LOUIS A. SHAW, A.B., *Instructor in Applied Physiology.*

PAUL REZNIKOFF, M.D., *Assistant in Applied Physiology.*

ROBERT M. THOMSON, *Assistant in Applied Physiology.*

PHYSICAL CHEMISTRY

LAWRENCE J. HENDERSON, M.D., *Professor of Biological Chemistry.*

EDWIN J. COHN, PH.D., *Assistant Professor of Physiological Chemistry.*

RONALD M. FERRY, M.D., *Fellow for Research in Biological Chemistry.*

In the Laboratories of Physiology of the Harvard Medical School, the Departments of Physiology, Comparative Physiology, Applied Physiology, and Physical Chemistry coöperate in offering courses of instruction and

opportunities for research in the biological and physico-chemical problems of general physiology, in comparative physiology, mammalian physiology, and the physiological problems of general and industrial hygiene. A pamphlet describing the activities of the Laboratories in some detail may be had upon application to Dr. A. C. Redfield, Harvard Medical School, Boston.

REQUIRED COURSES

First Year.—The following objects govern the presentation of this course in Physiology.

1. To acquaint the student with the method of experiment as applied to the acquisition of knowledge of physiological facts and to teach him how such facts may be correlated so as to explain physiological phenomena.

2. To cause the student to perform a series of experiments which demonstrate the more fundamental concepts of physiology which will help him to understand the phenomena of health and disease in man, and in the case of those phenomena which fail to lend themselves to such treatment to present in the lecture room an exposition of the experimental procedures from which the concepts have arisen.

3. To train the student to correlate his knowledge of the physiology of the different parts or systems of the organism into an understanding of its activity as a whole, and to show him the utility of applying physiological concepts to the study of medicine.

The first three weeks are devoted to the first of these objects. In the laboratory a series of experiments will be performed which, while designed primarily for training the student to handle living tissue, to make and interpret graphic records, and to draw from experiment a deduction concerning the phenomenon in question, will serve to demonstrate the chief facts on which our conceptions of the nature of excitation, conduction and response in muscle and nerve are based. In the accompanying lectures and conferences the student will be shown how these facts may be correlated and applied to the elucidation of the coördinate activity of the heart and the neuro-muscular mechanism.

At the end of this period the class will be divided into four sections of approximately thirty men each. Every section will devote three weeks to each of the following series of laboratory exercises.

1. **THE CIRCULATION OF THE BLOOD.**—Experiments illustrating the events of the cardiac cycle in the reptilian and mammalian heart, the factors controlling the pressure and flow of blood in the arteries and veins, the nervous control of the circulation, and the effects of the circulation on the activities of muscles and glands will give the student extensive experience in the performance of operative procedures upon anesthetized mammals. The principles thus brought out will be applied to the inter-

pretation of experiments performed upon the students themselves with methods adapted to the clinical study of the circulation.

2. METABOLISM AND RESPIRATION. — Experiments illustrating the fundamental facts concerned in the gaseous exchange of the body are particularly well adapted to train the student in the use of quantitative methods in the study of human physiology. They will include a study of the method of gas analysis, the determination of basal metabolism, the measurement of the tension of the gases in the alveolar air and in the venous blood, the estimation of the output of the heart per minute, the effect of exercise upon the factors concerned in the gaseous exchange, the chemical control of the ventilation of the lung, and the determination of the efficiency of methods of artificial respiration. In addition, the nervous control of the pulmonary ventilation and the gas content of the arterial and venous blood under various conditions will be illustrated by experiments and demonstrations on an anesthetized mammal.

3. THE BLOOD AND BODY FLUIDS. — Experiments illustrating the carriage of oxygen and carbon dioxide by the blood, the fundamental facts of the acid base equilibrium, the physiological importance of the physical properties of the body fluids, i. e. osmotic pressure, salt content, temperature, etc., the coagulation of the blood, the regulation of its water content by the kidney, the secretion of lymph, and the properties desirable in solutions used for transfusion.

4. THE CENTRAL NERVOUS SYSTEM AND SPECIAL SENSES. — Experiments illustrating the principal conceptions concerning the properties of the reflex arc and the integration of reflex activity in the central nervous system, the functions of the higher nervous centers, the nature of voluntary and reflex movement and of the maintenance of posture, the control of visceral organs by the autonomic nervous system, the phenomena of refraction in the eye, the function of the semi-circular canals and the properties and distribution of sensory end-organs in the skin.

Each of these series is in charge of a senior member of the staff assisted by a teaching fellow who will explain and discuss the experiments in informal lectures and conferences, will demonstrate certain experiments which cannot be readily performed by the students themselves, assign reading from a standard textbook, and give references to monographs and original papers relating to the subject, and at the end of each series examine the students on the work which they have been over.

While this experimental work is in progress formal lectures will be given twice a week in which will be treated the interrelation of the various subjects studied in the laboratory. These lectures will treat also of the physiology of those phenomena on which no laboratory work is given, such as the digestive system, the endocrine glands, the regulation of body temperature, the cerebro-spinal fluid, etc.

FIRST YEAR

HOURS

Lectures and Laboratory work. Drs. CANNON, DRINKER, REDFIELD, and Mr. GRIFFITH, assisted by other members of the staff. *Three times a week, second half-year.* 232

FOURTH-YEAR ELECTIVE COURSES

PHYSIOLOGY 1. Investigation. Drs. CANNON, FORBES, DRINKER, AUB, and REDFIELD. Students will not ordinarily be received for less than two full courses.

COMPARATIVE PHYSIOLOGY 1. Dr. PORTER. Whole courses, forenoons, afternoons or all day.

PHYSICAL CHEMISTRY OF PHYSIOLOGICAL PROCESSES 1. Dr. COHN. Half-course; lectures and laboratory demonstrations, 3 to 4 P.M., November; assigned reading and conferences.

PHYSICAL CHEMISTRY OF PHYSIOLOGICAL PROCESSES 2. Investigation. Not less than one full course.

VOLUNTARY COURSES

(The following courses are open to second, third, and fourth year men, and will be given on Tuesdays and Thursdays from 2 to 4 P.M.)

CIRCULATION. Dr. DRINKER. October.

(Pathology is a prerequisite for this course.)

PHYSICAL CHEMISTRY OF THE BLOOD. Dr. HENDERSON. November.

RESPIRATION. Dr. REDFIELD. December.

METABOLISM AND NUTRITION. Dr. AUB. January.

THE ENDOCRINE GLANDS. Dr. CANNON. February.

PHYSICAL CHEMISTRY OF PHYSIOLOGICAL PROCESSES. Dr. COHN. March.

DEMONSTRATIONS IN MAMMALIAN PHYSIOLOGY. Dr. PORTER. April.

FUNDAMENTAL PRINCIPLES UNDERLYING THE ACTIVITY OF THE NERVOUS SYSTEM. Dr. FORBES. April.

FATIGUE AND REPAIR. Dr. DRINKER. May.

Biological Chemistry

OTTO FOLIN, Ph.D., S.D., *Hamilton Kuhn Professor of Biological Chemistry.*

RICHARD D. BELL, M.D., *Assistant Professor of Biological Chemistry.*

CYRUS H. FISKE, M.D., *Assistant Professor of Biological Chemistry.*

HARRY C. TRIMBLE, Ph.D., *Assistant in Biological Chemistry.*

HILDING BERGLUND, M.D., *Research Assistant in Biological Chemistry.*

HENRY LYMAN, M.D., *Assistant in Biological Chemistry.*

SIDNEY W. BLISS, B.S., *Teaching Fellow in Biological Chemistry.*

MARK R. EVERETT, B.Sc., *Teaching Fellow in Biological Chemistry.*

REQUIRED COURSES

First Year.—The lectures in this course consist of a brief discussion of the theories of chemical constitution and a survey of those classes of chemical substances which are to be found in animals and plants, and of the general principles and more important facts of physiological chemistry.

The laboratory practice is designed to acquaint the student with some of the more important constituents of living matter and their chemical behavior, and with some of the routine methods of biochemical investigation.

Conferences and discussions of selected topics supplement the main work of the course.

FIRST YEAR	HOURS
Lectures and Laboratory Work. Drs. FOLIN, BELL, FISKE, and assistants. <i>Four times a week, second half-year.</i>	232

FOURTH-YEAR ELECTIVE COURSES

BIOLOGICAL CHEMISTRY 1. Whole courses, forenoons, afternoons, or all day, June and July, February through May.

VOLUNTARY COURSES

ADVANCED WORK. Students who are especially interested in methods and problems of biological chemistry will be given opportunity on their free afternoons to do advanced work.

Bacteriology

S. BURT WOLBACH, M.D., *Shattuck Professor of Pathological Anatomy, and Acting Head, Department of Bacteriology.*

JACQUES BRONFENBRENNER, Ph.D., D.P.H., *Assistant Professor of Bacteriology.*

CLEAVELAND FLOYD, M.D., *Silas Arnold Houghton Assistant Professor of Bacteriology.*

CALVIN G. PAGE, M.D., *Assistant Professor of Bacteriology.*

WILLIAM T. BOVIE, Ph.D., *Instructor in Bacteriology.*

LESLEY H. SPOONER, M.D., *Instructor in Bacteriology.*

PHILIP CASTLEMAN, M.D., *Instructor in Bacteriology.*

ALBERT E. STEELE, M.D., *Instructor in Bacteriology.*

HORACE K. BOUTWELL, M.D., *Assistant in Bacteriology.*

— — —, *Teaching Fellow in Bacteriology.*

REQUIRED COURSES

Second Year. — Required bacteriology is taught by lectures and practical laboratory work. The lectures treat of the general subject (including immunology) and of methods of practical work. In the laboratory each student has an opportunity to become familiar with the simpler methods of manipulation and staining which are of especial clinical value, and with the more prominent of the pathogenic bacteria, together with the more important immunological reactions.

SECOND YEAR

HOURS

Lectures. DRS. WOLBACH, BRONFENBRENNER, FLOYD, SPOONER, PAGE, and CASTLEMAN. *Mondays, Wednesdays, and Fridays, first half-year.* 48

Laboratory work. DRS. WOLBACH, FLOYD, PAGE, BRONFENBRENNER, SPOONER, CASTLEMAN, STEELE, BOUTWELL, and FRAY. *Two hours, Mondays, Wednesdays, and Fridays, first half-year.* 96

Pathology

S. BURT WOLBACH, M.D., *Shattuck Professor of Pathological Anatomy.*

JAMES H. WRIGHT, M.D., S.D., *Assistant Professor of Pathology.*

GEORGE H. HANSMANN, M.D., *Instructor in Pathology.*

TREVOR G. BROWNE, M.D., *Assistant in Pathology.*

MICHAEL J. CONROY, M.D., *Assistant in Pathology.*

WALTER W. FRAY, M.D., *Assistant in Pathology.*

JAMES R. WILSON, M.D., *Assistant in Pathology.*

REQUIRED COURSES

Second Year. — The course in Pathology consists of laboratory work and lectures. The basis of the laboratory work is a systematic course in pathological histology. In connection with this there are demonstrations of fresh material and museum specimens and experiments on animals bearing on the subjects studied. For demonstrations, autopsy attendance, and experimental work the students are divided into small sections. The demonstrations and experimental work are given in connection with the subjects which are being studied, in rooms adjoining the main laboratory which are adequately provided with apparatus. Lectures are given three

days in the week by Drs. WOLBACH and WRIGHT. The object of the lectures is to expand and coördinate the knowledge which the student obtains by the study of material and to introduce important recent advances not yet incorporated in text-books. During the entire period of the course groups of students are sent to the various hospitals to see and assist in post-mortem examinations. The post-mortem material of the Peter Bent Brigham Hospital, the Massachusetts General Hospital, the Infants' Hospital, the Children's Hospital, the Boston Lying-In Hospital, the Huntington Hospital, the House of the Good Samaritan, and the Long Island Hospital is available for instruction. Each group prepares microscopical specimens of the tissues from each autopsy they attend, and immediately afterwards meets for a conference with one of the instructors and the whole case is reviewed and discussed. At these conferences the clinical history of the case is read and as far as possible the pathological findings are correlated with the clinical features. No attempt is made to separate the subject of Pathology into general pathology and pathological anatomy, but the subject is studied as a whole. The more important organs of the body are covered, towards the end of the course, with reference to their special pathology, particularly the blood, liver, spleen, kidneys, pancreas and genitalia. In teaching the student is taught methods of work, is given material, and directed, but he is taught to work independently. Tumors and other material coming from the surgical clinics are made full use of in the course. Conferences and recitations will occasionally be substituted for regular laboratory work.

On Saturdays conferences and recitations are substituted for the regular laboratory work.

In the afternoons of February Drs. TYZZER and FABYAN give a course of lectures and laboratory exercises on animal parasites, particularly the protozoa and the infections produced by them.

Approximately fifty hours are given to lectures and laboratory work in neuropathology, certain exercises being interdigitated with the course in general pathology, and twelve consecutive exercises in the more special diseases of the nervous system are given in April and May. (See Neuropathology.)

Third Year. — Clinical pathological demonstrations are held two hours a week throughout the year in the pathological amphitheatre alternately of the P.B.B.H. and of the M.G.H. Autopsy material is presented along with the case records.

SECOND YEAR

HOURS

Lectures. Drs. WOLBACH and WRIGHT. *Mondays, Wednesdays, and Fridays, October through March.*

75

- Laboratory work. Drs. WOLBACH, WRIGHT, CONROY, WILSON, HANSMANN, and BROWNE. *Two and a half hours, Mondays, Wednesdays, and Fridays, during the forenoons of October through March.* 187
- Neuropathology. Dr. COBB and associates. 42
(See also Diseases of the Nervous System; Neuropathology.)

THIRD YEAR

- Clinical pathological demonstrations. Dr. WOLBACH. (P.B.B.H.)
Two hours a week, throughout the year.
(See also Medicine and Surgery.)

FOURTH-YEAR ELECTIVE COURSES

- PATHOLOGY 1.** Dr. WOLBACH and assistants. P.B.B.H. Whole courses, all day, first half-year and summer months; whole courses, all day, or half-courses forenoons or afternoons, second half-year.
- PATHOLOGY 2.** Dr. WRIGHT. M.G.H. Whole courses, all day, or half-courses forenoons or afternoons, first half-year.
- PATHOLOGY 3.** H.M.S., Laboratory of Pathology. Whole courses, forenoons or afternoons, offered throughout the year.
- PATHOLOGY 5.** Surgical Pathology of Tumors. Dr. WRIGHT and Dr. R. B. GREENOUGH. Half-course, afternoons of January.

Legal Medicine

GEORGE B. MAGRATH, M.D., *Instructor in Legal Medicine.*

REQUIRED COURSES

Third Year. — A systematic course of lectures is given at the Medical School.

Fourth Year. — Optional course; second half-year. (1) Instruction in the pathological conditions met with in death following injury, and in sudden death, by the case method, with special reference to the clinical and the medico-legal aspects in each case. Exercises based on autopsy, with discussion of the case, and held in the post-mortem room of the North Mortuary. (2) Legal Medicine: medicine in its relation to the requirements of law. Systematic lectures (not less than twelve) dealing with matters of importance to the physician, alike as practitioner and as a witness in court.

THIRD YEAR

Lectures. Dr. MAGRATH. (H.M.S.) *Once a week, March 29–May 31.*

Comparative Pathology

ERNEST E. TYZZER, M.D., *George Fabyan Professor of Comparative Pathology.*

MARSHAL FABYAN, M.D., *Assistant Professor of Comparative Pathology.*

JULIUS C. GUZMAN, M.D., *Assistant in Comparative Pathology.*

REQUIRED COURSES

Second Year. — A course in Parasitology is given on Monday, Wednesday, and Friday afternoons in February. The study of the anatomy and life cycles of the more important species of worms parasitic in the human being is provided for by fresh material for dissection, by stained sections, and by the preserved specimens of the Helminthological Collection. The student is trained to identify these parasites as they appear in the various stages of their development. Parasitic protozoa causing diseases of the human being are also considered with special reference to their identification and life cycles. Human material, cultures, and experimentally infected animals are utilized in the study of these microorganisms. The ectoparasites, especially those concerned in the production or transmission of human disease, are considered as fully as the allotted time will allow.

SECOND YEAR

Lectures. DR. TYZZER. (H.M.S.) *Three times a week, January 31-February 28.*

12

Demonstrations and laboratory work. Drs. TYZZER and FABYAN. *Three two-hour periods a week, January 31-February 28.*

24

FOURTH-YEAR ELECTIVE COURSES

COMPARATIVE PATHOLOGY 1. DR. FABYAN. Half-courses, afternoons, October or November.

COMPARATIVE PATHOLOGY 2. Research. Drs. TYZZER and FABYAN.

PARASITOLOGY 1b. Protozoölogy, Helminthology, and Medical Entomology. Drs. TYZZER, FABYAN, and assistants. Course and a half, forenoons during March, April, and May.

Preventive Medicine and Hygiene

MILTON J. ROSENAU, M.D., A.M., *Charles Wilder Professor of Preventive Medicine and Hygiene.*

LLOYD D. FELTON, M.D., *Assistant Professor of Preventive Medicine and Hygiene.*

GARLAND H. BAYLEY, M.D., D.P.H., *Instructor in Epidemiology.*

GEORGE B. WHITE, Ph.D., *Instructor in Preventive Medicine and Hygiene.*
 ROBERT N. NYE, M.D., *Assistant in Epidemiology.*
 HAROLD E. SMILEY, M.D., *Charles Follen Folsom Teaching Fellow in Hygiene.*

REQUIRED COURSES

Third Year.—The course in Preventive Medicine and Hygiene consists of lectures and demonstrations, laboratory work, sanitary survey, and sanitary excursions. Each student is required to make a sanitary survey of a city or town and make a report thereon. The sanitary excursions consist of visits to a vaccine and antitoxin laboratory, to a dairy, etc.

THIRD YEAR

HOURS

Lectures and demonstrations. *Once a week, January; twice a week, February–May.* 36

FOURTH-YEAR ELECTIVE COURSES

PREVENTIVE MEDICINE AND HYGIENE 1. Whole course, all day, December.

VOLUNTARY COURSES

LABORATORY METHODS IN THE DIAGNOSIS OF GONORRHEA AND SYPHILIS.

Dr. HINTON. Tuesdays and Thursdays, 2 to 5 P.M., February and March. Open to second-, third-, and fourth-year men.

PRACTICAL IMMUNITY. Dr. WHITE. Tuesday afternoons, November 7–December 12.

Pharmacology

REID HUNT, M.D., *Professor of Pharmacology.*

WORTH HALE, M.D., *Associate Professor of Pharmacology.*

WALTER G. O. CHRISTIANSEN, B.S., *Instructor in Pharmacology.*

G. PHILIP GRABFIELD, M.D., *Instructor in Pharmacology.*

McKEEN CATTELL, A.M., Ph.D., *Teaching Fellow in Pharmacology.*

REQUIRED COURSES

Courses in pharmacology are given in the second and in the fourth years. In the second year the instruction is given by lectures, recitations, demonstrations, and a laboratory course in which the students have an opportunity of learning the physical and chemical properties of the more important drugs and of performing experiments illustrating the physiological actions of a number of these. A few exercises are given in pharmacy and materia medica, the work consisting of demonstrations and

practical exercises. Some attention is also given to toxicology. During the fourth year an opportunity is offered to students of doing more advanced work in experimental pharmacology.

SECOND YEAR		HOURS
Lectures and demonstrations. Drs. HUNT and HALE. <i>One hour, three times a week, October through January.</i>		48
Lectures, prescription writing and quizzes. <i>One hour, twice a week, October through January.</i>		32
Laboratory work, in sections.		24

FOURTH-YEAR ELECTIVE COURSES

PHARMACOLOGY 1. Therapeutics. Half-course, afternoons, April

VOLUNTARY COURSES

APPLIED PHARMACOLOGY. Drs. HALE and GRABFIELD. Tuesday afternoons, February through May.

Medicine

HENRY A. CHRISTIAN, M.D., *Hersey Professor of the Theory and Practice of Physic.*

DAVID L. EDSALL, M.D., S.D., *Jackson Professor of Clinical Medicine.*

RICHARD C. CABOT, M.D., *Professor of Clinical Medicine.*

FRANCIS W. PEABODY, M.D., *Professor of Medicine.*

REGINALD FITZ, M.D., *Associate Professor of Medicine.*

CHANNING FROTHINGHAM, M.D., *Assistant Professor of Medicine, Chairman of the Department.*

ELLIOTT P. JOSLIN, M.D., *Assistant Professor of Medicine.*

EDWIN A. LOCKE, M.D., *Assistant Professor of Medicine.*

JAMES H. MEANS, M.D., *Assistant Professor of Medicine.*

GEORGE R. MINOT, M.D., *Assistant Professor of Medicine.*

WILLIAM H. ROBESY, JR., M.D., *Assistant Professor of Medicine.*

FRANK H. HUNT, M.D., *Instructor in Medicine.*

FREDERICK T. LORD, M.D., *Instructor in Medicine.*

WILLIAM H. SMITH, M.D., *Instructor in Medicine.*

CYRUS C. STURGIS, M.D., *Instructor in Medicine.*

GERALD BLAKE, M.D., *Instructor in Medicine.*

WILLIAM R. OHLER, M.D., *Instructor in Medicine.*

FRANCIS W. PALFREY, M.D., *Instructor in Medicine.*

WILLIAM D. SMITH, M.D., *Instructor in Medicine.*

PAUL D. WHITE, M.D., *Instructor in Medicine.*

- ARLIE V. BOCK, M.D., *Assistant in Medicine.*
WILLIAM B. BREED, M.D., *Assistant in Medicine.*
GORONWY O. BROUN, M.D., *Assistant in Medicine.*
MAURICE FREMONT-SMITH, M.D., *Assistant in Medicine.*
BURTON E. HAMILTON, M.D., *Assistant in Medicine.*
HENRY JACKSON, JR., M.D., *Assistant in Medicine.*
CHESTER M. JONES, M.D., *Assistant in Medicine.*
WILLIAM G. LENNOX, M.D., *Assistant in Medicine.*
FRANCIS M. RACKEMANN, M.D., *Assistant in Medicine.*
GEORGE P. DENNY, M.D., *Alumni Assistant in Medicine, and Physician to Students.*
HARRY A. NISSEN, M.D., *Alumni Assistant in Medicine.*
BURGESS M. GORDON, M.D., *Teaching Fellow in Medicine.*
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REQUIRED COURSES

The instruction given by the Department of Medicine consists in lectures, recitations, amphitheatre clinics, practical work in the out-patient department and wards of the hospitals, and a thorough course in clinical pathology given at the Harvard Medical School in the laboratory of the Department. The laboratory is equipped for teaching routine clinical laboratory methods to the entire class, as well as for carrying on clinical or experimental medical research.

Second and Third Years. — The time given to the Department of Medicine in the medical curriculum comes in the second half of the second year and throughout the third and fourth years. During the second half of the second year instruction in the methods of history taking, physical examination, and laboratory technique is offered, and a few lectures and demonstrations introductory to internal medicine. During the last part of the second year and throughout the third year the subjects of internal medicine are covered by lectures, clinics, and recitations. During the third year the students come also in intimate contact with patients in the out-door departments of the various hospitals in small groups under the supervision of instructors. Throughout this year a clinical pathological conference is held weekly in conjunction with the Department of Pathology. In the fourth year the students serve as clinical clerks in the wards of a general hospital and have a short course in the wards of the Boston Sanatorium. Opportunity is offered in the fourth year for specially qualified students to take advanced courses and carry on research problems in internal medicine. The instruction is given at the Harvard Medical School, the Peter Bent Brigham Hospital, the Massachusetts General Hospital, the Boston City Hospital and several other hospitals devoted to special purposes. In

these hospitals abundant and varied clinical material is available for the conduct of the numerous exercises.

Fourth Year. — A service of not less than two months* as clinical clerk in the medical wards of the M.G.H., B.C.H., or P.B.B.H. is required of each student, except for those who take at least two months in surgery, in which case one month of medicine is required. During this period one week will be spent on tuberculosis patients at the Boston Sanatorium.

SECOND YEAR	HOURS
Lectures and recitations on physical diagnosis and history taking. Dr. ROBEY. (P.B.B.H.)	19
Clinical Pathological exercises. Dr. STURGIS and assistants. (H.M.S.) <i>Three times a week.</i>	90
Exercises in sections, physical diagnosis and history taking. Dr. ROBEY and assistants. (Each student has twenty-nine exercises.)	58
Lectures and demonstrations on selected topics in internal medicine. Drs. ROBEY, MINOT, and MEANS. <i>Seven weeks, second half-year.</i>	24

THIRD YEAR	HOURS
Lectures, recitations and clinics on selected topics in internal medicine. Drs. CHRISTIAN, PEABODY, LOCKE, MINOT, MEANS, and FROTHINGHAM. <i>Throughout the year.</i>	104
Clinical pathological demonstration. Drs. CABOT, WOLBACH, and WRIGHT. (P.B.B.H. and M.G.H.) <i>Once a week throughout the year.</i>	32
Exercises in sections in the out-patient departments at the M.G.H., B.C.H., or P.B.B.H. Each section has twenty-four exercises of two and a half hours each.	60

FOURTH YEAR*
Clinical clerkship at M.G.H. (Medicine 1, Dr. EDSALL and associates), B.C.H. (Medicine 2, Dr. PEABODY and associates), or P.B.B.H. (Medicine 2, Dr. CHRISTIAN and associates). 144 or 288

FOURTH-YEAR ELECTIVE COURSES

MEDICINE 4. Advanced studies in Medicine. Dr. EDSALL. M.G.H.

* For 1922-23 only; after this date five months will regularly be devoted to medicine and surgery.

VOLUNTARY COURSES

SELECTED TOPICS IN INTERNAL MEDICINE. Drs. MINOT and MEANS, assisted by Drs. JONES, LENNOX, RACKEMANN, and WHITE. Tuesdays and Thursdays, October through January. Open to third-year men.

CORRELATION OF PHYSICAL SIGNS. Dr. ROBEY and associates. Thursdays, 3 to 5 p.m., January 31 to May 31, B.C.H. Open to second- and third-year men.

CHRONIC NON-TUBERCULOUS DISEASES OF THE LUNG AND PLEURA. Drs. W. H. SMITH, HOLMES, HAWES, and CLIFFORD. Thursdays, 4 p.m., October through January, M.G.H. Open to third-year men.

Surgery

The Department of Surgery includes surgery, clinical surgery, operative surgery, surgical pathology, surgical technique, genito-urinary surgery, roentgenology, and the laboratory of surgical research.

HARVEY CUSHING, M.D., *Moseley Professor of Surgery.*

CHARLES A. PORTER, M.D., *Professor of Clinical Surgery.*

PAUL THORNDIKE, M.D., *Clinical Professor of Genito-Urinary Surgery.*

J. BAPST BLAKE, M.D., *Assistant Professor of Surgery.*

DAVID CHEEVER, M.D., *Assistant Professor of Surgery, and Associate in Anatomy.*

ROBERT B. GREENOUGH, M.D., *Assistant Professor of Surgery.*

HOWARD A. LOTHROP, M.D., *Assistant Professor of Surgery.*

WILLIAM C. QUINBY, M.D., *Assistant Professor of Genito-Urinary Surgery.*

EDWARD P. RICHARDSON, M.D., *Assistant Professor of Surgery.*

J. DELLINGER BARNEY, M.D., *Instructor in Genito-Urinary Surgery.*

ELLIOTT C. CUTLER, M.D., *Instructor in Surgery, Director of the Laboratory of Surgical Research. Chairman of the Department.*

GEORGE W. HOLMES, M.D., *Instructor in Roentgenology.*

JOHN HOMANS, M.D., *Instructor in Surgery.*

JAMES S. STONE, M.D., *Instructor in Surgery.*

PHILIP D. WILSON, M.D., *Instructor in Surgery.*

PERCY BROWN, M.D., *Instructor in Roentgenology.*

HILBERT F. DAY, M.D., *Instructor in Surgery.*

HARRY F. HARTWELL, M.D., *Instructor in Surgery.*

OTTO J. HERMANN, M.D., *Instructor in Surgery.*

GILBERT HORRAX, M.D., *Instructor in Surgery.*

WILLIAM E. LADD, M.D., *Instructor in Surgery.*

HALSEY B. LODER, M.D., *Instructor in Surgery.*

- RICHARD H. MILLER, M.D., *Instructor in Surgery.*
 CHANNING C. SIMMONS, M.D., *Instructor in Surgery.*
 ARTHUR W. ALLEN, M.D., *Assistant in Surgery.*
 PERCIVAL BAILEY, M.D., *Assistant in Surgery.*
 GEORGE H. BINNEY, M.D., *Assistant in Surgery.*
 PATRICK F. BUTLER, M.D., *Assistant in Roentgenology.*
 EDWARD D. CHURCHILL, M.D., *Assistant in Surgery.*
 DANIEL C. ELKIN, M.D., *Assistant in Surgery.*
 ROGER C. GRAVES, M.D., *Assistant in Genito-Urinary Surgery.*
 TORR W. HARMER, M.D., *Assistant in Surgery and in Anatomy.*
 HERBERT H. HOWARD, M.D., *Assistant in Genito-Urinary Surgery.*
 GEORGE A. LELAND, M.D., *Assistant in Surgery and in Anatomy.*
 OSCAR R. T. L'ESPERANCE, M.D., *Assistant in Genito-Urinary Surgery.*
 ADELBERT S. MERRILL, M.D., *Assistant in Roentgenology.*
 FRANCIS C. NEWTON, M.D., *Assistant in Surgery.*
 AUGUSTUS RILEY, M.D., *Assistant in Genito-Urinary Surgery.*
 ALPHA R. SAWYER, M.D., *Assistant in Genito-Urinary Surgery.*
 MERRILL C. SOSMAN, M.D., *Assistant in Roentgenology.*
 BETH VINCENT, M.D., *Assistant in Surgery.*
 CHARLES C. LUND, M.D., *Alumni Assistant in Surgery.*
 WILLIAM J. M. SCOTT, M.D., *Arthur Tracy Cabot Fellow in Surgery.*
 THOMAS K. RICHARDS, M.D., *Austin Teaching Fellow in Surgery.*

REQUIRED COURSES

Instruction will be given by amphitheatre clinics, lectures, and conferences, together with section teaching in the wards and out-patient departments of the hospitals and in the laboratory of surgical research. Elective and voluntary courses will be given in the laboratories of the Harvard Medical School and in the wards and operating rooms of the hospitals.

Second Year. — The course will begin in February of the second year. Instruction will be given by clinical lectures and section work in the various hospitals and in the surgical laboratory. The course will cover the general principles of surgical treatment: surgical technique, the use of apparatus and instruments, and an introduction to clinical surgery, beginning with inflammation, trauma, etc.

Third Year. — The course in the second year is designed to prepare the student for both the "dresser" service in the out-patient departments of the hospitals affiliated with the School and for the more elaborate description of regional surgery carried on throughout the third year by amphitheatre clinics, lectures, symposia, etc. The "dresser" service in general

surgery is arranged so that small groups of students will have a three weeks' service (from 9 to 11.30 A.M.) in one of the various hospitals. Instruction in roentgenology will be carried out during this period. In addition, each student will have a two weeks' service in genito-urinary surgery (from 9 to 11.30 A.M.) in the out-patient department of one of the hospitals.

Fourth Year. — A service of not less than two months* as clinical clerk in the surgical wards of the M.G.H., B.C.H., or P.B.B.H., is required of each student, except for those who take at least two months in Medicine, in which case one month of surgery is required.

SECOND YEAR	HOURS
Clinical lectures. Dr. LOTHROP and associates. (B.C.H.) <i>Once a week, January 31-May 31.</i>	16
Section work. Dr. LOTHROP and associates. <i>Three times a week for two hours, January 31-May 9. Each student has nine exercises.</i>	38
Clinical lectures. (B.C.H.) <i>Once every alternate week, January 31-April 4 and May 10-May 31.</i>	6

THIRD YEAR	HOURS
Amphitheatre Clinics. Drs. CUSHING, PORTER, and associates. (P.B. B.H., M.G.H., B.C.H.) <i>Once a week and once every alternate week throughout the year.</i>	48
Lectures and exercises in regional surgery. <i>Once a week throughout the year.</i>	32
Clinico-Pathological Conferences, in conjunction with the Departments of Medicine and Pathology.	32
Section work: (A) Out-Patient dresser service. Dr. HERMANN (B.C.H.), Dr. MILLER (M.G.H.), Dr. CUTLER (P.B.B.H.), and Dr. DAY (B.D.). <i>Each student has eighteen two and a half hour exercises.</i>	45
(B) Genito-urinary surgery. (B.C.H., M.G.H., and P.B.B.H.) <i>Each student has twelve two and a half hour exercises.</i>	30
Roentgenology. Instruction will be given (a) to students during their section work in general surgery at the various hospitals; (b) to the class as a whole in the combined exercises of Surgery and Medicine when such instruction is indicated by the topic under discussion.	

* For 1922-23 only; after this date not less than five months will regularly be devoted to medicine and surgery.

FOURTH YEAR *

Clinical clerkship at M.G.H. (Surgery 1, Dr. PORTER and associates),
 B.C.H. (Surgery 2, Dr. — and associates), or P.B.B.H. (Sur-
 gery 3, Dr. CUSHING and associates). 144 or 288

FOURTH-YEAR ELECTIVE COURSES

SURGERY 4a. Children's Surgery. Dr. STONE. Ch.H. Half-course, fore-
 noons. (Note. — May be taken in conjunction with Orthopedic
 Surgery 3, half-course, afternoons.)

SURGERY 5. Genito-Urinary Surgery. Dr. THORNDIKE. B.C.H. Half-
 course, forenoons; or, with the permission of the instructor, whole
 course, all day.

SURGERY 6. Genito-Urinary Surgery. M.G.H. Half-course, forenoons.

SURGERY 7. Research. H.M.S. Whole course, all day.

SURGICAL PATHOLOGY OF TUMORS. Dr. GREENOUGH and Dr. J. H.
 WRIGHT. Half-course, afternoons of January. (See Pathology 5.)

ROENTGENOLOGY 1. Drs. HOLMES, ELLSWORTH, REYNOLDS, and MERRILL.
 Whole courses, all day, offered throughout the year.

VOLUNTARY COURSES

OPERATIVE SURGERY. Dr. CUTLER. Tuesday afternoons, 2.30 to 5 P.M.,
 November through April. Open to third-year students.

SURGICAL REVIEW. Drs. SIMMONS and LODER. Thursday afternoons,
 3.30 to 5 P.M., October 19 through January 18. Open to third-year
 students.

Pediatrics

OSCAR M. SCHLOSS, M.D., *Professor of Pediatrics.*

JAMES M. GAMBLE, M.D., *Assistant Professor of Pediatrics.*

EDWIN H. PLACE, M.D., *Assistant Professor of Pediatrics.*

RICHARD M. SMITH, M.D., *Assistant Professor of Child Hygiene.*

FRITZ B. TALBOT, M.D., *Clinical Professor of Pediatrics.*

MAYNARD LADD, M.D., *Associate in Pediatrics.*

HENRY I. BOWDITCH, M.D., *Instructor in Pediatrics.*

PHILIP H. SYLVESTER, M.D., *Instructor in Pediatrics.*

ARTHUR F. ANDERSON, M.D., *Assistant in Pediatrics.*

THOMAS E. BUCKMAN, M.D., *Assistant in Pediatrics.*

BRONSON CROTHERS, M.D., *Assistant in Neurology and in Pediatrics.*

* For 1922-23 only; after this date not less than five months will regularly be devoted to medicine and surgery.

ROBERT D. CURTIS, M.D., *Assistant in Pediatrics.*
 PAUL W. EMERSON, M.D., *Assistant in Pediatrics.*
 MARTIN J. ENGLISH, M.D., *Assistant in Pediatrics.*
 RICHARD S. EUSTIS, M.D., *Assistant in Pediatrics.*
 ARTHUR M. GOULDING, M.D., *Assistant in Pediatrics.*
 HYMAN GREEN, M.D., *Assistant in Pediatrics.*
 FRANCIS B. GRINNELL, M.D., *Assistant in Pediatrics.*
 DAVID M. HASSMAN, M.D., *Assistant in Pediatrics.*
 LYNNE A. HOAG, M.D., *Assistant in Pediatrics.*
 ARTHUR B. LYON, M.D., *Assistant in Pediatrics.*
 WARREN SISSON, M.D., *Assistant in Pediatrics.*
 HAROLD C. STUART, M.D., *Assistant in Pediatrics.*
 EDWIN T. WYMAN, M.D., *Assistant in Pediatrics.*
 JAMES H. YOUNG, M.D., *Assistant in Pediatrics.*
 NORMAN C. BENDER, M.D., *Teaching Fellow in Pediatrics.*

REQUIRED COURSES

Second Year. — Six lectures on the subject of infant feeding are given at the end of the second year. The principles of infant feeding are given at this time in order to familiarize the student with the subject before he comes into contact with patients.

Third Year. — 1. Clinical lectures are given weekly at The Children's Hospital or at the Infants' Hospital during the first half-year. These clinics are arranged to illustrate as nearly as possible all of the more important diseases of infants and children.

2. Section teaching: small groups of students are brought into intimate contact with patients in the out-patient department of the Children's Hospital. Two mornings a week for three weeks are spent at the South Department of the Boston City Hospital, for the study of infectious diseases.

Fourth Year. — The fourth-year work will consist of instruction at The Children's Hospital, the Infant's Hospital, the Children's Department of the Massachusetts General Hospital, and at the Boston City Hospital.

Students will be divided into groups and assigned for one month to one of the hospitals. They will act as clinical clerks.

One afternoon each week will be spent at the South Department, for the study of contagious diseases.

SECOND YEAR

HOURS

Lectures. Dr. SCHLOSS. (H.M.S.) *Once a week, April 12-May 31.* 6

THIRD YEAR

Clinical lectures. Dr. SCHLOSS and assistants. (Ch.H. or I.H.) <i>Once a week, first half-year.</i>	16
Section Teaching. (Ch.H. and I.H.) <i>Throughout the year. Each student attends eighteen exercises of two and one-half hours each during the year.</i>	45

FOURTH YEAR

Clinical clerkships. (C.H., I.H., M.G.H., or B.C.H.)	144
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FOURTH-YEAR ELECTIVE COURSES

- PEDIATRICS 2. Whole courses, all day, offered throughout the year.
 PEDIATRICS 3. Half-courses, forenoons, offered throughout the year.

Dermatology and Syphilology

DERMATOLOGY

- CHARLES J. WHITE, M.D., *Edward Wigglesworth Professor of Dermatology.*
 FREDERICK S. BURNS, M.D., *Instructor in Dermatology.*
 E. LAWRENCE OLIVER, M.D., *Instructor in Dermatology.*
 JOHN H. BLAISDELL, M.D., *Assistant in Dermatology.*

REQUIRED COURSES

Third Year. — A series of fourteen introductory lectures, illustrated by the epidiascope, is given on succeeding Wednesdays during the first half-year. Section work in clinical dermatology is given at the Massachusetts General Hospital throughout the year, each section receiving instruction for two weeks from 9 to 11.30 daily.

THIRD YEAR

HOURS

Lectures. Dr. WHITE. (H.M.S.) <i>Sixteen lectures, first half-year.</i>	16
Section work. Clinical Dermatology. Drs. BURNS, OLIVER, and BLAISDELL. (M.G.H.) <i>Each student attends twelve two and a half hour exercises.</i>	30

FOURTH-YEAR ELECTIVE COURSES

- DERMATOLOGY 1. Half-courses, forenoons, October, December, February, and April.
 DERMATOLOGY 2. Microscopical study. Half-course, afternoons, November.
 DERMATOLOGY 3. Clinical clerkship. Whole courses, all day, October, December, February, and April.

SYPHILOLOGY

C. MORTON SMITH, M.D., *Clinical Professor of Syphilology.*

HENRY D. LLOYD, M.D., *Instructor in Syphilology.*

AUSTIN W. CHEEVER, M.D., *Assistant in Syphilology.*

GEORGE A. DIX, M.D., *Assistant in Syphilology.*

 REQUIRED COURSES

Third Year. — Lectures and clinical instruction are given at the Massachusetts General Hospital.

THIRD YEAR	HOURS
Clinical lectures. Dr. SMITH. (M.G.H.) <i>Once a week, September 25–November 21.</i>	8
Clinical exercises in sections. Drs. SMITH, LLOYD, DIX, and CHEEVER, (M.G.H.) <i>Each student attends twelve two and a half hour exercises.</i>	30

FOURTH-YEAR ELECTIVE COURSES

SYPHILOLOGY 1. Half-courses, forenoons, offered throughout the school year.

Diseases of the Nervous System

(Composed of the Sections of Neuropathology, Neurology, and Psychiatry.)

NEUROPATHOLOGY

STANLEY COBB, M.D., *Assistant Professor of Neuropathology.*

JAMES B. AYER, M.D., *Instructor in Neurology and in Neuropathology.*

HARRY C. SOLOMON, M.D., *Instructor in Psychiatry and in Neuropathology.*

HUGO MELLA, M.D., *Instructor in Neuropathology and Assistant in Neurology.*

DONALD J. MACPHERSON, M.D., *Assistant in Neuropathology.*

 REQUIRED COURSES

Second Year. — The course consists of lectures, laboratory work, and demonstrations, with tests, review exercises, and quizzes as required, amounting to approximately fifty hours. Some of the exercises are appropriately integrated with the course in general pathology. The more special diseases of the nervous system are treated in a series of twelve consecutive morning exercises. A brief review is given of the anatomy

required for grasping the pathological physiology of the nervous system. The lectures introduce conceptions of value for the third-year courses in neurology and psychiatry and for the neurological parts of courses in internal medicine and in surgery. The histopathological part of the laboratory work deals with the inflammatory reactions, the classical degenerations, and (in brief) with important entities such as general paresis of the insane and tabes dorsalis. Gross pathological specimens are also shown and physiological demonstrations are given to illustrate living pathological processes.

SECOND YEAR

Lectures and laboratory work. Dr. COBB and assistants. *Three times a week, April 5-May 9.*

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FOURTH-YEAR ELECTIVE COURSES

NEUROPATHOLOGY 1. Research. Opportunities for research are available at the Laboratories of the H.M.S., at the B.P.H., and at the M.G.H. Time to be arranged.

NEUROPATHOLOGY 2. Review. Dr. COBB. Whole courses, afternoons throughout the year; or, when correlated with morning work in Neurology or Psychiatry, half-courses, afternoons.

NEUROPATHOLOGY 3. Experimental Neurology. Dr. COBB. Half-course, afternoons of January, H.M.S.

VOLUNTARY COURSES

See Coöperative Plan for Voluntary Courses in Nervous and Mental Diseases.

NEUROLOGY

EDWARD W. TAYLOR, M.D., *James Jackson Putnam Professor of Neurology.*

JAMES B. AYER, M.D., *Instructor in Neurology and in Neuropathology.*

GEORGE CLYMER, M.D., *Instructor in Neurology.*

CHARLES A. McDONALD, M.D., *Instructor in Neurology.*

BRONSON CROTHERS, M.D., *Assistant in Neurology and in Pediatrics.*

HAROLD B. EATON, M.D., *Assistant in Neurology.*

HUGO MELLA, M.D., *Instructor in Neuropathology and Assistant in Neurology.*

HENRY R. VIETS, Jr., M.D., *Assistant in Neurology.*

REQUIRED COURSES

Second Year. — Clinical lectures are given at the Massachusetts General Hospital to the entire class, once a week throughout the second half of the

year. The object of the course is to give the student a general knowledge of the principles of diagnosis and treatment of diseases of the nervous system as a preparation for later work. The general plan of instruction is (a) Review of the anatomy of the nervous system essential to diagnosis of organic diseases; lectures and demonstrations. (b) Pathological anatomy in its relation to diagnosis; demonstrations of specimens and photographs. (c) Study of cases as they present themselves at the out-patient department of the hospital and in the wards.

Third Year.—Clinical lectures are given during April and May of the third year at the Massachusetts General Hospital. The members of the class are also required to work in the out-patient department in sections throughout the year for which the more didactic teaching of the second year serves as a necessary preparation. This work is practical in character and serves to bring the student into immediate contact with patients.

SECOND YEAR

HOURS

Clinical lectures. Dr. TAYLOR. (M.G.H.) *Once a week, April 5–May 9; twice a week, May 10–31.* 10

THIRD YEAR

Clinical lectures. Dr. TAYLOR. (M.G.H.) *Once a week, March 29–May 31.* 8

Section teaching. Each student attends twelve two and a half hour exercises in Neurology. 30

FOURTH-YEAR ELECTIVE COURSES

NEUROLOGY 1. Half-courses, forenoons, offered throughout the School year.

NEUROLOGY 2. Special opportunities are offered to those who intend to enter this field of medicine.

VOLUNTARY COURSES

See Coöperative Plan for Voluntary Courses in Nervous and Mental Diseases, page 00.

PSYCHIATRY

C. MACFIE CAMPBELL, M.D., *Professor of Psychiatry.*

HARRY C. SOLOMON, M.D., *Instructor in Psychiatry and in Neuropathology.*

KARL M. BOWMAN, M.D., *Instructor in Psychiatry.*

DOUGLAS A. THOM, M.D., *Instructor in Psychiatry.*

F. LYMAN WELLS, Ph.D., *Instructor in Experimental Psychopathology.*

ALFRED H. EHRENCLOU, M.D., *Assistant in Psychiatry.*

MARTIN W. PECK, M.D., *Assistant in Psychiatry.*

REQUIRED COURSES

First-Year. — Medical Psychology. Physiology deals with the reactions of the various organs and systems; psychology deals with the reactions of the individual to the environment. In this course on medical psychology the student will have an opportunity for studying briefly the emotional reactions, their modification by experience, the rôle played in these reactions by the various systems; the ability to receive, elaborate, store, and reactivate impressions; variations in constitutional endowment; special lines of weakness; and the importance of personal factors in medicine in general, and especially in relation to nervous and mental disorders.

Third-Year. — From September 25 through January clinical lectures will be given once a week at the Psychopathic Hospital. An endeavor will be made to present examples of all the most important varieties of mental disorder, with special emphasis on the mild and incipient cases which are frequently treated by the general practitioner. More attention will be given to the dynamic analysis and the practical problems of the individual case than to questions of formal classification. Some examples of nervous and mental disorders of childhood will be presented.

For bed-side work the class is divided into small sections, and each student will be given opportunity for personally studying individual cases.

FIRST YEAR	HOURS
Lectures on Medical Psychology. Dr. CAMPBELL. (H.M.S.) <i>Once a week, March 15-May 31.</i>	10

THIRD YEAR	
Clinical lectures. Dr. CAMPBELL and assistants. (B.P.H.) <i>Once a week, September 25 through January.</i>	16
Section teaching. Each student attends twelve two and a half-hour exercises.	30

FOURTH-YEAR ELECTIVE COURSES

PSYCHIATRY 1. Whole courses or half-courses, forenoons or all day, offered throughout the year.

VOLUNTARY COURSES

COÖPERATIVE PLAN FOR VOLUNTARY COURSES IN NERVOUS AND MENTAL DISEASES:—

EMBRYOLOGY AND ANATOMY OF THE CENTRAL NERVOUS SYSTEM. Staff of Department of Anatomy. Tuesdays and Thursdays, 2 to 4 P.M., October. (See also Anatomy.)

NEUROPATHOLOGY. Staff of Department of Neuropathology. Tuesdays and Thursdays, November.

NEUROLOGY. Staff of Department of Neurology. At various hospitals, by appointment. Tuesdays and Thursdays, December.

EXPERIMENTAL NEUROLOGY. Staff of Department of Neuropathology. Tuesdays and Thursdays, January.

THE ENDOCRINE GLANDS. DR. CANNON. Tuesdays and Thursdays, 2 to 4 P.M., February. (See also Physiology.)

PSYCHIATRY. Staff of Department of Psychiatry, B.P.H. Tuesdays and Thursdays, March.

NEURO-PHYSIOLOGY. DR. FORBES. Tuesdays and Thursdays, 2 to 4 P.M., April. (See also Physiology.)

Obstetrics and Gynaecology

OBSTETRICS

FRANKLIN S. NEWELL, M.D., *Professor of Clinical Obstetrics.*

ROBERT L. DENORMANDIE, M.D., *Instructor in Obstetrics.*

FREDERICK C. IRVING, M.D., *Instructor in Obstetrics.*

NATHANIEL R. MASON, M.D., *Instructor in Obstetrics and Assistant in Gynaecology.*

JAMES R. TORBERT, M.D., *Instructor in Obstetrics.*

DELOS J. BRISTOL, Jr., M.D., *Assistant in Obstetrics.*

THOMAS R. GOETHALS, M.D., *Assistant in Obstetrics.*

DELBERT L. JACKSON, M.D., *Assistant in Obstetrics.*

HOWARD B. JACKSON, M.D., *Assistant in Obstetrics.*

FOSTER S. KELLOGG, M.D., *Assistant in Obstetrics.*

JOHN C. ROCK, M.D., *Assistant in Obstetrics.*

JOHN B. SWIFT, Jr., M.D., *Assistant in Obstetrics.*

W. T. SHERMAN THORNDIKE, M.D., *Assistant in Obstetrics.*

WILLIAM B. YOUNG, M.D., *Alumni Assistant in Obstetrics.*

REQUIRED COURSES

Third Year.—Instruction is given by lectures, conferences, and clinical teaching. Students are required to take charge, before graduation, of at least twelve cases of labor, under supervision and instruction, to care for their patients during the convalescence, and to make full written reports of the cases.

Fourth Year.—The fourth-year course will occupy the student's entire time for one month. It will be given at the Boston Lying-in Hospital and at the Medical School. During half of the course the student will lodge at the hospital, and devote his time chiefly to attendance on cases in the

out-patient clinic. In the course of his work he will be called on to assist at operations in the out-patient department, and will be expected, when his other duties permit, to make ward visits with the physician on duty in the house. In the other half of the course he will conduct the convalescence of the cases delivered by him during his resident service, and make daily ward visits at which clinical instruction will be given in the general management of normal and abnormal labor, in the study of the puerperal convalescence, and in the care of the young infant. Detailed written reports of the out-patient cases attended will be required. His clinical work will be done under the supervision of the department and of the hospital staff on duty, and he will receive careful instruction in the proper methods of delivery and the care of the convalescence. An opportunity will be given each student to study the care of pregnancy in the Pregnancy Clinic, where instruction in pelvimetry and in diagnosis of presentation and position by external examination will be given. Case teaching on four afternoons during the week will be an important feature of the course. The student will also be given at the Medical School a course of demonstrations in operative obstetrics during the first week of each course, and each student will have an opportunity to perform the different operations on the manikin.

SECOND YEAR

HOURS

Lectures. Dr. NEWELL and Dr. IRVING. (H.M.S.) *Twice a week,*
April 12-May 31. 12

THIRD YEAR

Lectures and conferences on Obstetrics. Dr. NEWELL and assistants.
 (H.M.S.) *Once a week, throughout the year.* 32
 Practical instruction in Clinical Obstetrics. By members of the De-
 partment. *Throughout the year.* 30

FOURTH YEAR

Practical instruction, in sections, in Clinical Obstetrics. *One month.* 144

GYNAECOLOGY

WILLIAM P. GRAVES, M.D., *Professor of Gynaecology.*
 ROBERT M. GREEN, M.D., *Instructor in Anatomy, and Assistant in Gynaecology.*
 NATHANIEL R. MASON, M.D., *Instructor in Obstetrics and Assistant in Gynaecology.*
 FRANK A. PEMBERTON, M.D., *Instructor in Gynaecology.*
 MALCOLM STORER, M.D., *Instructor in Gynaecology.*
 ERNEST B. YOUNG, M.D., *Instructor in Gynaecology.*
 HAROLD W. BAKER, M.D., *Assistant in Gynaecology.*

FREDERICK L. GOOD, M.D., *Assistant in Gynaecology.*
 EDWARD B. SHEEHAN, M.D., *Assistant in Gynaecology.*
 RICHARD G. WADSWORTH, M.D., *Assistant in Gynaecology.*
 JOHN T. WILLIAMS, M.D., *Assistant in Gynaecology.*

REQUIRED COURSES

Third Year.—Instruction is given by lectures and clinical teaching in the third year (and in the fourth year for 1922–23 only). Clinics are held in the wards and out-patient departments of the Free Hospital for Women, Boston City Hospital, and Boston Dispensary. The student is instructed in the examination and diagnosis of gynaecological disease, and in the technic of gynaecological operations.

	THIRD YEAR	HOURS
Lectures. Dr. GRAVES. (H.M.S.)	<i>Once a week, January 31–May 28.</i>	8
Clinical exercises. Drs. GRAVES, WADSWORTH, and PEMBERTON (F.H. for W.), Dr. STORER (B.D.), and Drs. YOUNG, GREEN, MASON, and WILLIAMS (B.C.H.)	<i>In sections, throughout the year. Each student attends twelve exercises.</i>	30

FOURTH YEAR*

Clinical exercises. Drs. GRAVES, PEMBERTON, and WADSWORTH (F.H. for W.), Dr. STORER (B.D.), and Drs. YOUNG, GREEN, GOOD, MASON, and WILLIAMS. (B.C.H.)	<i>In sections, throughout the year. Each student attends twelve exercises.</i>	36
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FOURTH-YEAR ELECTIVE COURSES

GYNAECOLOGY 2.† Dr. GRAVES, assisted by Drs. PEMBERTON, WADSWORTH, and SHEEHAN. Free Hospital for Women. Whole courses or half-courses, mornings, offered throughout the year.

Orthopedic Surgery

ROBERT W. LOVETT, M.D., *John B. and Buckminster Brown Professor of Orthopedic Surgery.*

ROBERT B. OSGOOD, M.D., *Instructor in Orthopedic Surgery.*

* For 1922–23 only; after this date work in the specialties will not be required in the fourth year.

† Those electing this course may substitute dermatology, syphilology, or neurology for the required work in gynaecology.

REQUIRED COURSES

Third Year.—Instruction is given in Orthopedic Surgery by lectures at the Harvard Medical School or Children's Hospital in the first half of the third year, and throughout the third year (also throughout the fourth year for 1922-23 only) by clinical exercises at the Children's Hospital and Massachusetts General Hospital.

	THIRD YEAR	HOURS
Lectures. Dr. LOVETT. (H.M.S. or C.H.) <i>September 25-December 22. Once a week.</i>		12
Clinical exercises. Dr. LOVETT and assistants. (Ch.H. and M.G.H.) <i>In sections throughout the year. Each student has twelve exercises.</i>		30

FOURTH YEAR*

Clinical exercises. Dr. LOVETT and assistants. (Ch.H. and M.G.H.) <i>In sections throughout the year. Each student has sixteen exercises.</i>	48
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FOURTH-YEAR ELECTIVE COURSES

- ORTHOPEDIC SURGERY 2. Half-courses, forenoons, offered throughout the year.
- ORTHOPEDIC SURGERY 3. Half-courses, afternoons, offered throughout the school year. (This course may be taken in conjunction with Surgery 4, half-course, forenoons.)

Ophthalmology

ALEXANDER QUACKENBOSS, M.D., *Williams Professor of Ophthalmology.*
 GEORGE S. DERBY, M.D., *Assistant Professor of Ophthalmology.*
 FREDERICK H. VERHOEFF, M.D., *Assistant Professor of Ophthalmology.*
 WILLIAM N. SOUTER, M.D., *Instructor in Ophthalmology.*
 ROBERT C. CHENEY, M.D., *Assistant in Ophthalmology.*
 EDWIN B. GOODALL, M.D., *Assistant in Ophthalmology.*
 RALPH A. HATCH, M.D., *Assistant in Ophthalmology.*

REQUIRED COURSES

Third Year.—Instruction in Ophthalmology consists of lectures at the Medical School and of clinical exercises devoted to diagnostic methods, diagnosis, and treatment at the Massachusetts Charitable Eye and Ear Infirmary in the third year (and in the fourth year for 1922-23 only).

* For 1922-23 only; after this date work in the specialties will not be required in the fourth year.

THIRD YEAR

HOURS

Clinical exercises. Drs. QUACKENBOSS, DERBY, SOUTER, CHENEY, GOODALL, and HATCH. (E. and E.I.) <i>In sections throughout the year. Twelve exercises for each student.</i>	30
Lectures. (H.M.S.) <i>Once a week, November 22-January 30.</i>	8

FOURTH YEAR*

HOURS

Clinical exercises. Drs. QUACKENBOSS, DERBY, SOUTER, CHENEY, GILBERT, GOODALL, and HATCH. (E. and E.I.) <i>In sections, every week during the year. Twelve exercises for each student.</i>	36
Lectures. (H.M.S.) <i>Once a week, first two months.</i>	8

FOURTH-YEAR ELECTIVE COURSES

OPHTHALMOLOGY 2. Whole course, forenoons.

OPHTHALMOLOGY 3. Instruction in the use of the ophthalmoscope.

Otology

EUGENE A. CROCKETT, M.D., *Walter Augustus Lecompte Professor of Otology.*HARRY P. CAHILL, M.D., *Instructor in Otology.*FREDERICK L. BOGAN, M.D., *Assistant in Otology.*CHARLES O. DAY, M.D., *Assistant in Otology.*HARRY P. FINCK, M.D., *Assistant in Otology.*OLIVER A. LOTHROP, M.D., *Assistant in Otology.*CHARLES T. PORTER, M.D., *Assistant in Otology.*FRED A. SIMMONS, M.D., *Assistant in Otology.*HAROLD G. TOBEY, M.D., *Assistant in Otology.*

Third Year.—Instruction is given by lectures at the Harvard Medical School and clinical instruction in the third year (and, for 1922-23 only, in the fourth year) in sections, each student receiving instruction every morning for two weeks at the Massachusetts Eye and Ear Infirmary with anatomical and histological demonstrations at the Harvard Medical School.

THIRD YEAR

Clinical exercises in sections. (E. and E.I.) <i>Every student has twelve exercises.</i>	30
Lectures. (H.M.S.) <i>Once a week. September 25-November 21.</i>	8

* For 1922-23 only; after this date work in the specialities will not be required in the fourth year.

FOURTH YEAR*

Clinical exercises in sections. (E. and E.I.)	<i>Every student receives twelve exercises during the year.</i>	36
Lectures. (H.M.S.)	<i>Once a week first two months.</i>	8

FOURTH-YEAR ELECTIVE COURSES

OTOLOGY 2. Half-courses, forenoons, October to January.

Laryngology

ALGERNON COOLIDGE, M.D., *Professor of Laryngology.*

HARRIS P. MOSHER, M.D., *Assistant Professor of Laryngology, and Associate in Anatomy.*

HARRY A. BARNES, M.D., *Instructor in Laryngology.*

JOHN H. BLODGETT, M.D., *Instructor in Laryngology.*

FREDERICK E. GARLAND, M.D., *Instructor in Laryngology.*

JOSEPH L. GOODALE, M.D., *Instructor in Laryngology.*

D. CROSBY GREENE, M.D., *Instructor in Laryngology.*

GEORGE H. WRIGHT, D.M.D., *Assistant in Laryngology.*

REQUIRED COURSES

Third Year.—Instruction consists of lectures and section work in the third year (and, for 1922-23 only, in the fourth year) each section being assigned for the mornings of two weeks to the clinic of the Massachusetts General Hospital. In addition to clinical instruction, frequent special exercises or demonstrations will be given.

THIRD YEAR

HOURS

Clinical exercises. All members of the Department.	<i>Twelve exercises for each student.</i>	30
Lectures. Dr. COOLIDGE and assistants. (M.G.H.)	<i>Once a week, November 22-January 30.</i>	8

FOURTH YEAR*

Clinical exercises. All members of the department.	<i>Twelve exercises for each student.</i>	36
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FOURTH-YEAR ELECTIVE COURSES

LARYNGOLOGY 2.† Half-course, forenoons, offered throughout the year. M.G.H.

* For 1922-1923 only; after this date work in the specialities will not be required in the fourth year.

† Those electing this course may substitute dermatology, syphilology, or neurology for the required work in laryngology.

Bio-physics**FOURTH-YEAR ELECTIVE COURSES**

BIO-PHYSICS 1. Dr. BOVIE. Whole course, all day, May.

VOLUNTARY COURSES

BIO-PHYSICAL METHODS. Dr. BOVIE. October, continuing as long as is indicated by the students' needs. Open to third year men and to other members of the University.

Public Health**FOURTH-YEAR ELECTIVE COURSES**

Fourth-year students may elect certain courses in the School of Public Health provided they submit a satisfactory program for approval to the Dean's office. For special information regarding courses in Tropical Medicine, consult Dr. R. P. STRONG, Room 229, Building D; regarding Industrial Medicine, consult Dr. WADE WRIGHT, Room 108, Building A. Detailed information concerning courses in these subjects and concerning all other public courses may be had in the office of the School of Public Health, Room 108, Building A.

RESERVE OFFICERS' TRAINING CORPS

A medical unit of the Reserve Officers' Training Corps provides systematic training for the purpose of qualifying selected students for appointment as reserve medical officers in the military forces of the United States. Thirty lectures on medico-military subjects are given by the Professor of Military Science and Tactics during each of the four school years to the students who have been enrolled as members of the medical unit. There are two courses of instruction, basic and advanced, the former occupying the first two years, the latter the last two years of the medical course.

In addition to the instruction by means of lectures students who have completed the basic course and have been enrolled in the advanced course will attend a course of military instruction of about six weeks' duration at a summer camp.

TABULAR VIEW OF UNDERGRADUATE COURSES

FIRST YEAR—First Half-Year

SEPT. 25—Jan. 31 (*Inclusive*)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-12	Anatomy or Histology	Anatomy or Histology	Anatomy or Histology	Anatomy or Histology	Anatomy or Histology	
2-4.30	Anatomy or Histology	Anatomy or Histology	Anatomy or Histology	Anatomy or Histology	Anatomy or Histology	

FIRST YEAR—Second Half-Year

FEB. 1—MAY 31 (*Inclusive*)

9-12.30	Physiology	Biological Chemistry Lecture at 9	Physiology	Biological Chemistry Lecture at 9	Physiology	Biological Chemistry Lecture at 9
2-4	Physiology	Biological Chemistry Lecture at 2			Physiology	
4-5	March 15—May 31 (10 weeks) Medical Psychology				Biological Chemistry Personal conferences	

SECOND YEAR—First Half-Year

SEPT. 25—JAN. 30 (*Inclusive*)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-10	Pathology	Pharmacology	Pathology	Pharmacology	Pathology	Pharmacology
10-11						
11-12.30		Pharmacology (half class)				Anatomy (half class) Pharmacology (half class)
12.30-1						
2-5	Bacteriology		Bacteriology		Bacteriology	

SECOND YEAR—Second Half-Year

JAN. 31—MAY 31 (*Inclusive*)

		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<i>Jan. 31-May 9</i> (13 weeks)	9-10	<i>Jan. 31-Apr. 4</i> (9 weeks) Pathology	Medicine†	<i>Jan. 31-Apr. 4</i> (9 weeks) Pathology	Surgery B. C. H.	<i>Jan. 31-Apr. 4</i> (9 weeks) Pathology	<i>Jan. 31-Apr. 4</i> (9 weeks) Medicine*† or Surgery*† <i>Apr. 5-May 9</i> (4 weeks) 9-10 Neurology
	10-10.30						
	10.30-12.30	<i>Apr. 5-May 9</i> (4 weeks) Neuropathology	Div. A—Med. Div. B—Surg. <i>Alternate weeks</i> Div. B—Med. Div. A—Surg.	<i>Apr. 5-May 9</i> (4 weeks) Neuropathology	Div. B—Med. Div. A—Surg. <i>Alternate weeks</i> Div. A—Med. Div. B—Surg.	<i>Apr. 5-May 9</i> (4 weeks) Neuropathology	Div. A—Med. Div. B—Surg. <i>Alternate weeks</i> Div. B—Med. Div. A—Surg.
<i>May 10-May 31</i> (3 weeks)	9-10	Medicine†	Neurology	Medicine†	Surgery B. C. H.	Neurology	Medicine*† or Surgery*†
	10-10.30						
	10.30-12.30	Medicine Section Work	Medicine Section Work	Medicine Section Work	Medicine Section Work	Medicine Section Work	Medicine Section Work
<i>Jan. 31-Apr. 11</i> (10 weeks)	2-5	<i>Jan. 31-Feb. 28</i> (4 weeks) Parasitology <i>Mar. 1-Apr. 11</i> (6 weeks) Clin. Pathology		<i>Jan. 31-Feb. 28</i> (4 weeks) Parasitology <i>Mar. 1-Apr. 11</i> (6 weeks) Clin. Pathology		<i>Jan. 31-Feb. 28</i> (4 weeks) Parasitology <i>Mar. 1-Apr. 11</i> (6 weeks) Clin. Pathology	
	2-4	Clin. Pathology		Clin. Pathology		Clin. Pathology	
	4-5	Pediatrics		Obstetrics		Obstetrics	
<i>Apr. 12-May 31</i> (6 weeks)							

THIRD YEAR — First Half-Year
September 25, 1922-January 30, 1923 (Inclusive)

UNDERGRADUATE COURSES. — TABULAR VIEW

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	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-11.30	Section Work in Medicine, Surgery, Obstetrics, Pediatrics, Dermatology, Genito-Urinary Surgery, Gynaecology, Laryngology, Neurology, Ophthalmology, Orthopedic Surgery, Otology, Psychiatry, Syphilology.					
11.30-12						
12-1	Medicine*	Obstetrics Bldg. A, Rm. 201	Surgery P. B. B. H.	Sept. 25-Nov. 21 (8 wks.) Syphilology M. G. H. Nov. 22-Jan. 30 (8 wks.) Laryngology M. G. H.	Pediatrics	Medicine* or Surgery*
2-3	Psychiatry		Sept. 25-Nov. 21 (8 wks.) Otology Nov. 22-Jan. 30 (8 wks.) Ophthalmology		Sept. 25-Dec. 22 (12 wks.) Orthopedic Surgery Jan. 3-30 (4 wks.) Hygiene	
3-4	Surgery H. M. S.		Medicine*		Clinical-Pathological Conferences P. B. B. H. or M. G. H. †	
4-5			Dermatology			

* See Bulletin Board, H. M. S., for place of meeting.

† Alternate weeks.

THIRD YEAR — Second Half-Year
January 31–May 31, 1923 (Inclusive)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-11.30	Section Work in Medicine, Surgery, Obstetrics, Pediatrics, Dermatology, Genito-Urinary Surgery, Gynaecology, Laryngology, Neurology, Ophthalmology, Orthopedic Surgery, Otology, Psychiatry, Syphilology.					
11.30-12						
12-1	Medicine*	Obstetrics Bldg. A, Room 201	Surgery	<i>Jan. 31–Mar. 28</i> (8 wks.) Medicine* <i>Mar. 29–May 31</i> (8 wks.) Neurology	Medicine*	Medicine* or Surgery*
2-3	Hygiene		<i>Jan. 31–Mar. 28</i> (8 wks) Gynaecology <i>Mar. 29–May 31</i> (8 wks.) Legal Medicine		Hygiene	
3-4			Medicine*		Clinical-Pathological Conferences P. B. B. H. or M. G. H. †	
4-5			Surgery H. M. S.			

* See Bulletin Board, H. M. S., for place of meeting.

† Alternate weeks.

FOURTH YEAR*

(Each block represents one month. Order of subjects variable.)

1		2		3		4	
MORNING	Medicine 1, 2, or 3	Medicine 1, 2, or 3 or Surgery 1, 2, or 3		Surgery 1, 2, or 3		Obstetrics 1	
AFTERNOON							
5		6		7		8	
MORNING	Pediatrics 1	Otology 1	Ophthalmology 1	Gynaecology 1†	Laryngology 1†	Elective	
AFTERNOON		Orthopedic Surgery 1		Elective			

On Fridays throughout the year, afternoon work in all courses will be replaced by class exercises.

A student may substitute one or more elective courses for required courses of the fourth year, provided he anticipates the required work of the year by work during the vacation period between the third and fourth years. In very exceptional cases a student will be permitted to substitute elective for required courses without anticipating the required work during the summer.

* Programme for 1922-23 only; after that date no work in the specialties will be required in the fourth year.

† Students electing Gynaecology 2 or Laryngology 2 may substitute for the required work in that subject two weeks of Dermatology, Neurology, or Syphilology.

DEGREES

ON FEBRUARY 27, 1922, DEGREES WERE CONFERRED AS FOLLOWS:—

M.D.

Clair Sylvester Bauman, S.B. (*Pennsylvania State Coll.*) 1918.

Benjamin Jonathan Berger.

Daniel Parsons Foster, A.B. (*Univ. of California*) 1917, A.M. (*ibid.*) 1919.

Jacob Leon Grund.

James Hitchcock, A.B. (*Dartmouth Coll.*) 1909.

Maxwell Eugene Macdonald.

William Parry Murphy, A.B. (*Univ. of Oregon*) 1914.

ON JUNE 22, 1922, DEGREES WERE CONFERRED AS FOLLOWS:—

M.D.

Simon Albert, A.B. 1918 (1917).

Charlie Joe Armstrong, A.B. (*Southwestern Univ.*) 1911, A.M. (*ibid.*) 1917.

Henry Baker, S.B. 1917.

Basil Egbert Barton, A.B. 1919.

Roy Wilmot Benton, PH.B. (*Brown Univ.*) 1918.

Russell Rolland Best, S.B. (*Univ. of Nebraska*) 1920.

James Dewey Bisgard, Jr., A.B. (*Univ. of Nebraska*) 1921.

Harry Irving Bixby.

Philip Warren Blake.

Douglas Boyd, Jr.

Clarence James Campbell, S.B. (*Dartmouth Coll.*) 1918 (1917).

Anthony Marius Champ, A.B. (*Clark Coll.*) 1915.

Mon-Fah Chung.

Charles Ezra Constantine.

George Eaton Daniels, S.B. (*Dartmouth Coll.*) 1918.

John Harold Dorn.

Thomas Minot Dudley, S.B. (*Dartmouth Coll.*) 1920.

Rand Augustus Dunham.

Edwin Blakeslee Dunphy, A.B. (*Princeton Univ.*) 1918.

Marion Fletcher Eads, A.B. (*Univ. of Missouri*) 1920.

Carl Helge Ernlund, A.B. (*Coll. of Lund*) 1911, D.M.D. (*Harvard Univ.*) 1917.

Edward Thompson Evans, S.B. (*Univ. of Wisconsin*) 1920.

Clarence Henry Falstad, S.B. (*Univ. of Wisconsin*) 1920.

- Kenneth Clyde Farnsworth.
 Francis McRae Findlay, A.B. (*Park Coll.*) 1918.
 Earl Edward Fipphen, S.B. (*Dartmouth Coll.*) 1920.
 Frederick Coleman Fishback, A.B. 1919 (1918).
 David Harry Flashman.
 Harry James Flower.
 Walter Wendell Fray, S.B. (*Syracuse Univ.*) 1916, S.M. (*ibid.*) 1917.
 Gus Bernard Fred, S.B. (*Univ. of Texas*) 1920.
 Stanton Garfield, A.B. (*Williams Coll.*) 1917.
 Francis Vincent Garside, A.B. (*Brown Univ.*) 1918.
 James Raymond Glazier, PH.G. (*Univ. of Pittsburgh*) 1914, S.B. (*ibid.*) 1920.
 Bernard Isadore Goldberg, S.B. (*Tufts Coll.*) 1918.
 Joseph Goldman, A.B. 1919 (1918).
 Leon Albert Goldsmith, A.B. (*Reed Coll.*) 1918.
 Howard Brant Goodrich, A.B. (*Williams Coll.*) 1920.
 Donald Covil Gordon, A.B. (*Wesleyan Univ.*) 1920.
 Edward Valentine Hackett, A.B. (*Holy Cross Coll.*) 1918.
 William Waugh Haggart.
 Henry Theodore Hagstrom, PH.B. (*Brown Univ.*) 1917.
 William Frantz Harper, S.B. (*Univ. of Alabama*) 1918.
 Jerome Reed Head, A.B. (*Univ. of Wisconsin*) 1914, A.M. (*Univ. of Illinois*) 1915.
 Arthur Max Hoffman, A.B. (*Reed Coll.*) 1918.
 Heywood Hill Hopkins.
 John Shelton Horsley, Jr.
 Royal Carlton Hudson, S.B. (*Rhode Island State Coll.*) 1915.
 Thomas Paul Kendrick.
 Edgar Allen Kibbe, A.B. (*Univ. of Missouri*) 1916.
 William Aldrich King.
 Moses Kopel.
 Richard Jacob Lebowich.
 Walter Sabin Levenson, A.B. 1919.
 Robert Edward Lee Loring.
 Donald Dyer Lum, A.B. (*Univ. of California*) 1919, A.M. (*ibid.*) 1920.
 Michael Edmund McGarty, A.B. (*Univ. of Wisconsin*) 1920.
 Kenneth Long Maclachlan, A.B. 1918.
 Ralph Collingwood McLeod, A.B. 1919 (1918).
 Blackwell Markham, A.B. (*Univ. of North Carolina*) 1917, A.M. (*ibid.*) 1918.
 William James Marquis, PH.G. (*Univ. of Nebraska*) 1918.
 Robert Leonard Mason, A.B. (*Lake Forest Coll.*) 1918.

John Willis Meachen.

Paul Howard Means, A.B. 1917.

Joseph Minton Meherin.

Edward Francis Mitchell, A.B. (*Holy Cross Coll.*) 1907.

Hamilton Montgomery, A.B. 1918.

Richmond Lawrence Moore, A.B. (*Univ. of Virginia*) 1918.

Paul Colhoun Morton, A.B. (*Univ. of Missouri*) 1919.

Hugh Poteet Muir, A.B. (*Univ. of Missouri*) 1919, A.M. (*ibid.*) 1920.

Harold Nebel, A.B. (*Univ. of Wisconsin*) 1919, A.M. (*ibid.*) 1920.

Adolph Bernhard Quasser.

Max Ritvo, A.B. 1918.

Hugh Laughlin Robinson, A.B. (*Colby Coll.*) 1918.

Hugh Grant Rowell, A.B. (*Dartmouth Coll.*) 1915.

Herbert William Salter, S.B. (*Ohio State Univ.*) 1920.

Eugene Lee Settles, A.B. (*Univ. of Missouri*) 1919, A.M. (*ibid.*) 1920.

Harold Everett Smiley, PH.B. (*Brown Univ.*) 1912, S.M. (*ibid.*) 1913.

Edward Charles Smith, A.B. (*Boston Coll.*) 1918.

Howard Burnham Sprague, A.B. 1918.

Erland Myles Standish, S.B. (*Wesleyan Univ.*) 1918.

Charles Wattles Stephenson, A.B. (*Williams Coll.*) 1919.

Henry John Stettbacher, S.B. (*Bates Coll.*) 1917.

Horace Pottle Stimson, A.B. (*Amherst Coll.*) 1918.

Benjamin Norman Suravitz, A.B. 1919.

Grantley Walder Taylor, A.B. 1918.

Max Tennis, S.B. (*Tufts Coll.*) 1916.

Chester Quay Thompson.

William Haley Van Wart, A.B. (*Bowdoin Coll.*) 1918.

Arnoldus Dirk Versteegh, Jr., A.B. (*Univ. of Leiden*) 1905.

Paul William Vestal, PHARM.D. (*George Washington Univ.*) 1915.

Edward Gilmay Waters, PH.B. (*Yale Univ.*) 1919.

Ernest Harl White, A.B. (*Clark Univ.*) 1911, S.M. (*Univ. of Chicago*) 1915.

Herman Aaron Winkler, PH.B. (*Brown Univ.*) 1918.

Laurence Edward Wright, A.B. (*Univ. of Colorado*) 1919.

M.D. cum Laude

George Colket Caner, A.B. 1917.

Leo Max Davidoff.

Hallowell Davis, A.B. 1918.

George Kahn, S.B. (*Mass. Institute of Technology*) 1918.

Wilfred Pickles, A.B. (*Brown Univ.*) 1918.

Louis Wolff, S.B. (*Mass. Institute of Technology*) 1918.

STUDENTS

FOURTH CLASS

- †Alpers, Bernard Jacob (*Harvard Univ.*), Salem
 Anderson, Randolph Levy, S.B. (*Univ. of Virginia*) 1919, Richmond, Va.
 ‡Armstrong, Wilber Price, Jr., A.B. (*Univ. of Illinois*) 1920, Springfield, Ill.
 †Atkinson, Mahlon Hicks (*Univ. of North Carolina*), Canajoharie, N. Y.
 Balch, Franklin Greene, Jr., A.B. 1918, Jamaica Plain
 †Barber, Daniel Newman, S.B. (*W. Virginia Univ.*)
 1921, Charleston, W. Va.
 †Batchelder, Philip (*New Hampshire State Coll.*), Durham, N. H.
 Bell, Joseph Clark, A.B. (*Univ. of Oregon*) 1917, Rickreall, Ore.
 Bemis, George Gordon, A.B. (*Univ. of Wisconsin*) 1920, Riverton, Wyo.
 A.M. (*ibid.*) 1921,
 Benedict, Augustus Palmer, A.B. (*Middlebury Coll.*)
 1917, Mt. Kisco, N. Y.
 Benedict, Edward Benson, A.B. 1917, Cambridge
 †Bird, Clare Edward, A.B. (*Univ. of California*) 1920, La Jolla, Cal.
 §Bortz, Edward LeRoy, A.B. 1920, Greensburg, Pa.
 Brading, Edward Thurston, PH.B. (*Tusculum Coll.*)
 1918, Johnson City, Tenn.
 †Bradshaw, Raymond Watson, A.B. (*Oberlin Coll.*) 1920, Sugar Grove, Pa.
 Brock, Benjamin, A.B. (*Univ. of Georgia*) 1919, Carrollton, Ga.
 Brown, Albert Lincoln, A.B. (*Univ. of California*) 1919, San Francisco, Cal.
 §Brown, Howard Dodge Huffman, A.B. (*Univ. of Kansas*) 1919, Beloit, Kan.
 Bullwinkel, Frederick, S.B. (*Rutgers Coll.*) 1919, Brooklyn, N. Y.
 †Buol, Robert Stanley, S.B. (*Univ. of Michigan*) 1921, New Britain, Conn.
 Burisch, John Livingston, A.B. (*Wesleyan Univ.*) 1919, Elizabeth, N. J.
 Calhoun, Abner Wellborn, A.B. (*Univ. of Georgia*) 1918, Atlanta, Ga.
 †Cheney, Garnett, A.B. (*Univ. of California*) 1920, San Francisco, Cal.
 §Christian, Thomas Davis, Jr. (*Randolph-Macon Coll.*), Lynchburg, Va.
 †Clark, Burton Martin, Jr. (*Univ. of Wisconsin*) Oshkosh, Wis.
 Cochran, John Joseph, A.B. 1919, Natick
 Creed, John Patrick, A.B. (*Boston Coll.*) 1918, Haverhill
 Cushing, Edward Harvey, A.B. (*Yale Univ.*) 1919, Cleveland, O.
 †Dameshek, William (*Harvard Univ.*), Boston
 †Davis, Allan Littlefield, A.B. (*Bowdoin Coll.*) 1920, Springvale, Me.
 †Davis, William Powell (*Univ. of Colorado*), Sterling, Colo.
 Drake, Leo Berthier, A.B. 1918, Newfoundland, N. J.
 Duff, Paul Harrington, S.B. (*Mass. Institute of
 Technology*) 1916, Charlestown
 Duggan, Daniel Joseph, A.B. 1919, Wakefield
 Dustin, Cecil Calvert, S.B. (*New Hampshire State Coll.*)
 1919, Rochester, N. H.
 Dysart, Ben Robnett, A.B. (*Univ. of Missouri*) 1920, Columbia, Mo.
 Edwards, Franz Gill, S.B. (*Mass. Agricultural Coll.*) 1917, Boston
 Ely, Julian Griffin, S.B. (*Wesleyan Univ.*) 1917, Hamburg, Conn.

† Admitted on basis of two years' college work.

‡ Admitted on basis of three years' college work.

§ Admitted on basis of four years' college work (in several cases work for degree completed).

Fallon, John Michael, A.B. (<i>Holy Cross Coll.</i>) 1919,	Worcester
† Foster, Lewis Chandler, A.B. (<i>Univ. of Kansas</i>) 1919,	Carthage, Mo.
† Fowler, Frank Edgar, A.B. (<i>Univ. of Oregon</i>) 1920,	Pendleton, Ore.
Gardner, Stuart Needham, A.B. 1917,	Peabody
† Gerstle, Mark Lewis, Jr. (<i>Harvard Univ. and Univ. of California</i>),	San Francisco, Cal.
Goodale, Robert Lincoln, A.B. 1918,	Ipswich
Gorman, James John, A.B. (<i>Univ. of Texas</i>) 1918,	El Paso, Tex.
† Gundersen, Alf Helge (<i>Univ. of Wisconsin</i>),	La Crosse, Wis.
† Haagensen, Cushman Davis, A.B. (<i>Univ. of North Dakota</i>) 1921,	Grand Forks, No. Dak.
Hall, George Morris, S.B. (<i>Mass. Agricultural Coll.</i>) 1915,	Brookline
Harlow, John Stanley, A.B. 1917,	Dixfield, Me.
Heath, Elmer Hinckley, Jr., S.B. (<i>Mass. Institute of Technology</i>) 1917,	Neponset
Herrmann, Albert Edward, A.B., PH.G. (<i>Univ. of Nebraska</i>) 1918,	Lincoln, Neb.
† Higbee, Daniel Riggs, A.B. (<i>Colorado Coll.</i>) 1920,	Fowler, Colo.
† Hill, Howard Foster (<i>Colby Coll.</i>),	Waterville, Me.
† Horsley, William Watts, A.B. (<i>Univ. of Utah</i>) 1921,	Price, Utah
† Hurxthal, Lewis Marshall (<i>Kenyon Coll. and Harvard Univ.</i>),	Mansfield, O.
Huston, John, A.B. (<i>Univ. of Wisconsin</i>) 1920, A.M. (<i>ibid.</i>) 1921,	Richland Center, Wis.
Inches, Charles Patrick, A.B. (<i>Univ. of New Brunswick</i>) 1916,	St. John, N. B.
Johnson, Norman Percy, A.B. 1917,	Denver, Colo.
Krech, Shepard, A.B. (<i>Yale Univ.</i>) 1913,	Boston
† Kreider, Paul Gates (<i>Univ. of Illinois</i>),	Springfield, Ill.
† Lapp, Harry Clemens, A.B. (<i>Univ. of Missouri</i>) 1921,	Kansas City, Mo.
† Lawson, Theodore Carey, A.B. (<i>Univ. of California</i>) 1920,	Berkeley, Cal.
§ Lederman, Bernard, S.B. 1920,	Dorchester
† Lindsay, Samuel Thompson, A.B. (<i>Univ. of Missouri</i>) 1920, A.M. (<i>ibid.</i>) 1922,	Butte, Mont.
† Lutz, Frank Louis (<i>Ohio State Univ.</i>),	Pawtucket, R. I.
Lyon, Julian Milton, S.B. (<i>Rutgers Coll.</i>) 1919,	Atlantic City, N. J.
McCarthy, John Daly, A.B. (<i>Dartmouth Coll.</i>) 1908, A.M. (<i>Columbia Univ.</i>) 1911, PH.D. (<i>New York Univ.</i>) 1914,	Fitchburg
McClellan, Walter Stuart, A.B. (<i>Colgate Univ.</i>) 1916,	Hamilton, N. Y.
McClure, William Lionel, A.B. (<i>Drury Coll.</i>) 1916, A.M. (<i>Univ. of Illinois</i>) 1919,	Lawton, Okla.
Merriam, Joseph Chapman, A.B. 1916,	Framingham Centre
† Miles, George Stanley (<i>Tufts Coll.</i>),	W. Somerville
† Mufson, Samuel, A.B. 1920,	Passaic, N. J.
† Murphy, Thomas Basil (<i>Harvard Univ.</i>),	Medford
Neuswanger, Chris Harold, A.B. (<i>Colorado Coll.</i>) 1918,	Greeley, Colo.
Ogle, Clairel Leroy, A.B. (<i>Univ. of Oregon</i>) 1916,	Woodburn, Ore.

† Admitted on basis of two years' college work.

‡ Admitted on basis of three years' college work.

§ Admitted on basis of four years' college work (in several cases work for degree completed).

- †Pelkan, Karl Francis, A.B. (*Univ. of California*) 1920,
A.M. (*ibid.*) 1921, Marburg, Austria
- §Perkins, Arthur, A.B. 1919, Ogden, Utah
- †Pernokis, Evans William (*Univ. of Chicago*), Allegan, Mich.
- †Pillsbury, Stirling Gainer, A.B. (*Leland Stanford Junior Univ.*) 1920, Long Beach, Cal.
- Powell, James Patrick, S.B. 1916, Cambridge
- Reynolds, Edwin Drew, S.B. (*Mass. Institute of Technology*) 1917, Danvers
- Reynolds, Edward Joseph, S.B., PH.G. (*Notre Dame Univ.*) 1918, Bellows Falls, Vt.
- Richardson, Wyman, A.B. 1917, Boston
- †Robbins, Clarence Edward, A.B. (*Univ. of North Dakota*) 1921, Grand Forks, No. Dak.
- Robinson, Harold Clinton, A.B. 1918, Cambridge
- Rogers, Horatio, A.B. 1919, Chestnut Hill
- Schauffler, Goodrich Capen, A.B. (*Williams Coll.*) 1919, New York, N. Y.
- Schreiber, Woldemar Frederic, A.B. (*Univ. of Michigan*) 1918, Grand Rapids, Mich.
- Selkirk, Theodore King, A.B. 1918, Albany, N. Y.
- †Sergeant, Vergil Heber (*Ohio Wesleyan Univ., Ohio State Univ. and Harvard Coll.*) Isleta, O.
- †Seybold, Erwin George, S.B. (*Univ. of Wisconsin*) 1920, Forest Junction, Wis.
- S.M. (*ibid.*) 1921, Dorchester
- †Sidel, Nathan (*Tufts Premedical School*), Wellesley Hills
- Simmons, James Greenleaf, A.B. (*Grinnell Coll.*) 1916, Peoria, Ill.
- Smith, Millard, S.B. (*Shurtleff Coll.*) 1916, S.M. (*Univ. of Illinois*) 1918,
- Snyder, LeMoyné, S.B. (*Michigan Agricultural Coll.*) 1919, E. Lansing, Mich.
- Spangler, Paul Edwin, A.B. (*Univ. of Oregon*) 1919, Eugene, Ore.
- †Spurling, Roy Glenwood, A.B. (*Univ. of Missouri*) 1920, Kansas City, Mo.
- Stecher, Robert Morgan, S.B. (*Dartmouth Coll.*) 1919, Cleveland, O.
- Stellar, Robert Woodley, S.B. (*Occidental Coll.*) 1919, S. Pasadena, Cal.
- †Stevens, Theodore Moulton (*Univ. of Maine*), Portland, Me.
- †Sutton, Palmer Evans, A.B. (*Univ. of Michigan*) 1920, Detroit, Mich.
- Swan, Channing Stearns, A.B. 1919, Stoughton
- †Swanson, Cleary Neil, A.B. (*Univ. of Wisconsin*) 1919, Marinette, Wis.
- †Taylor, Leland Harris, PH.C. (*Univ. of California*) 1914, Oakland, Cal.
- Thiery, Raymond Donlé, A.B. 1918, Somerville
- Thompson, Frederick Gregg, Jr., PH.B. (*Yale Univ.*) 1919, St. Joseph, Mo.
- †Thompson, Percy Vernon, A.B. (*Leland Stanford Junior Univ.*) 1920, Los Angeles, Cal.
- Thompson, Willard Owen, A.B. (*Dalhousie Univ.*) 1919, Halifax, N. S.
- Tildon, Toussaint Tourgee, A.B. (*Lincoln Univ.*) 1912, Fort Worth, Tex.
- †Treanor, John Peter, Jr. (*Harvard Univ.*), Dorchester
- Twomey, Charles Francis, A.B. (*Boston Coll.*) 1917, Lynn
- Vail, Derrick Tilton, Jr., A.B. (*Yale Univ.*) 1919, Cincinnati, O.

† Admitted on basis of two years' college work.

‡ Admitted on basis of three years' college work.

§ Admitted on basis of four years' college work (in several cases work for degree completed).

- Walker, Arthur Meeker, A.B. (*Williams Coll.*) 1919, Chicago, Ill.
 Warren, Shields, A.B. (*Boston Univ.*) 1918, Brookline
 Wetterberg, Louis Ferdinand, s.B. (*Rutgers Coll.*) 1919, Perth Amboy, N. J.
 †Whitaker, Lester Ray (*New Hampshire State Coll.* and
Boston Univ.), Berwick, Me.
 White, James Clarke, A.B. 1917, Boston
 †White, Vivian Parley, A.B. (*Univ. of Utah*) 1921, Salt Lake City, Utah
 †Whiting, Walter Belknap (*Washington and Lee Univ.*), Summit, N. J.
 †Wilkins, William Thomas, Jr. (*Harvard Univ.*), Kingstree, S. C.
 Williams, Harold Vanderelst, A.B. (*Boston Univ.*) 1919, Reading
 Wolff, Harold George, s.B. (*Coll. of the City of New
 York*) 1918, New York, N. Y.
 Wright, Arthur William, A.B. 1917, Utica, N. Y.
 †Wright, Herbert Beach (*Univ. of Wisconsin*), Milwaukee, Wis.

THIRD CLASS

- §Albright, Fuller (*Harvard Univ.*), Buffalo, N. Y.
 †Anderson, Maine C. (*Univ. of Nebraska*), Dannebrog, Neb.
 Appel, Kenneth Ellmaker, A.B. (*Franklin and Marshall
 Coll.*) 1915, A.M. (*Harvard Univ.*) 1916, PH.D. (*ibid.*)
 1918, Lancaster, Pa.
 Argue, Thomas Henry, A.B. 1921 (1920), Corning, N. Y.
 †Barton, Charles Randolph (*Mass. Institute of Tech-
 nology*), Corona, L. I., N. Y.
 §Blanchard, Kenneth (*Texas Agricultural and Mechan-
 ical Coll.*, *Mass. Agricultural Coll.*, and *Boston Univ.*), Highland Falls, N. Y.
 Bowman, Morris Lester, A.B. (*Amherst Coll.*) 1919, Jamestown, N. Y.
 †Brill, Selling, A.B. (*Leland Stanford Jr. Univ.*) 1920, Portland, Ore.
 Bunts, Alexander Taylor, A.B. (*Yale Univ.*) 1920, Cleveland, O.
 Burton, George Victor, A.B. (*Acadia Coll.*) 1920, Yarmouth, N. S.
 Caron, Armand Laurier, A.B. (*Brown Univ.*) 1920, Southbridge
 Cattell, McKeen, s.B. (*Columbia Univ.*) 1914, A.M.
 (*Harvard Univ.*) 1917, PH.D. (*ibid.*) 1920, Garrison, N. Y.
 Catterson, Leroy Franklin, A.B. (*Grinnell Coll.*) 1920, New Sharon, Ia.
 Cave, Edwin French, A.B. (*Univ. of Missouri*) 1920, Columbia, Mo.
 Chandler, Paul Austin, s.B. (*Hastings Coll.*) 1920, Hastings, Neb.
 †Clark, Wilfred Sterling, A.B. (*Leland Stanford Jr.
 Univ.*) 1921, Ventura, Cal.
 Cohen, John, A.B. 1917, Balta, Podolia, Russia
 Cook, Edward Moody, s.B. (*Colby Coll.*) 1920, York Village, Me.
 Coonse, George Kenneth, A.B. (*Leland Stanford Jr.
 Univ.*) 1920, Yakima, Wash.
 Cooper, Henry Sage Fenimore, A.B. (*Yale Univ.*) 1917, Cooperstown, N. Y.
 †Crawford, James Davidson (*Amherst Coll.*, *Harvard
 Univ.*), New Castle, Pa.
 Cushman, Lawrence Arnold, s.B. (*Washington and
 Lee Univ.*) 1920, Miami, Fla.

† Admitted on basis of two years' college work.

‡ Admitted on basis of three years' college work (in several cases work for degree completed).

§ Admitted on basis of four years' college work (in several cases work for degree completed).

- †Dukakis, Panagis Stelianou (*Boston Univ. and Bates Coll.*), Lowell
 Dunn, Frank Lowell, S.B. (*Univ. of Chicago*) 1920, Erie, Pa.
 Farrell, Irving Augustine, PH.B. (*Brown Univ.*) 1920, Central Falls, R. I.
 Faulkner, James Morison, A.B. 1920, Keene, N. H.
 Fine, Jacob, A.B. 1920, Roxbury
 Foisie, Philip Samuel, S.B. 1920, Pelham, N. H.
 Foster, Edward Wendell, A.B. (*Kansas Univ.*) 1916, Carthage, Mo.
 †Foster, John McEwen, Jr. (*Univ. of Colorado*), Denver, Colo.
 Gallo, James Francis, S.B. (*Colgate Univ.*) 1920, Herkimer, N. Y.
 †Ganz, Robert Norton (*Harvard Univ.*), Cambridge
 Gay, Douglas Merrill, S.B. (*Bates Coll.*) 1917, East Granby, Conn.
 Gildea, Edwin Francis, A.B. (*Colorado Coll.*) 1920, Colorado Springs, Colo.
 Girardi, Victor Joseph, S.B. 1921 (1920), Athol
 Goddard, Harvey Burton, A.B. (*Bates Coll.*) 1920, Lewiston, Me.
 Goodale, Raymond Hamilton, S.B. (*Wesleyan Univ.*)
 1920, New Britain, Conn.
 †Granger, George Borden, S.B. (*Bowdoin Coll.*) 1921, Rockville Centre, N.Y.
 Graves, Edwin Ghent, A.B. (*Univ. of Texas*) 1920, Galveston, Tex.
 Greene, Merrill Selden Frederick, S.B. (*Colby Coll.*) 1920, Athens, Me.
 Greene, Theodore Chase, A.B. 1921 (1920), Baltimore, Md.
 Guptill, Plimpton, A.B. (*Bowdoin Coll.*) 1920, Topsham, Me.
 Hall, Llewellyn, A.B. 1920, Annapolis, Md.
 †Hay, Walter Fulton Whittimore (*Bowdoin Coll.*), Westbrook, Me.
 Heathfield, Frank Edward, A.B. (*Wheaton Coll.*) 1920, Smeeth, Kent, Eng.
 †Hess, James Samuel, S.B. (*Univ. of Wisconsin*) 1922, Mauston, Wis.
 Hitzrot, Lewis Haler, A.B. (*Princeton Univ.*) 1920, Brookline
 †Houghton, Donald Charles (*Univ. of Rochester*), Rochester, N. Y.
 Houston, Craig Stevens, A.B. (*Bowdoin Coll.*) 1920, Guilford, Me.
 Huggins, Charles Brenton, A.B. (*Acadia Coll.*) 1920, Halifax, N. S.
 Hunter, Charles Teague, S.B. (*Univ. of South Carolina*)
 1920, Trenton, S. C.
 Hunter, Frank Tannery, A.B. 1919, A.M. 1922, Tampa, Fla.
 Huntington, Frederic Sargent, A.B. (*Colgate Univ.*)
 1917, Hamilton, N. Y.
 Hurtado, Alberto, S.B. (*Univ. of San Marcos*) 1919, Lima, Peru
 Jenkin, John Theodore, S.B. (*New York Univ.*) 1920, Rockland Lake, N.Y.
 Jobe, Merrill Collins, A.B. (*Univ. of Denver*) 1920, Cedarville, O.
 †Johnson, Warren (*Tufts Premedical School, Harvard Univ.*), Boston
 †Jones, Wilfred Grant, S.B. (*Coll. of Wooster*) 1920 (1921), Newark, O.
 Kalin, Jacob Isaac, A.B. (*Clark Univ.*) 1920, Leominster
 Kappius, Meinolf V, S.B. (*Univ. of Nebraska*) 1920, Kearney, Neb.
 Katz, Samuel Elias, A.B., S.M. (*Univ. of Michigan*)
 1917, Ann Arbor, Mich.
 Kimberly, Charles Hazard, A.B. (*Williams Coll.*) 1920, Watervliet, N. Y.
 Kneedler, M Weir, S.B. (*Univ. of Pittsburgh*) 1916, Bellvue, Pa.
 Kobacker, J Lester, A.B. (*Univ. of Michigan*) 1920, Toledo, O.
 †Kramer, Hyman Louis (*Tufts Coll.*), Dorchester
 Lathrop, Frederic William, A.B. (*Brown Univ.*) 1920, Carmel, Conn.
 Lawson, Herman Albert, PH.B. (*Brown Univ.*) 1920, Newport, R. I.

† Admitted on basis of two years' college work.

‡ Admitted on basis of three years' college work (in several cases work for degree completed).

- †Leddy, Percy Allen, PH.G. (*Mass. Coll. of Pharmacy*) 1917, Calais, Me.
 McCann, James Cole, A.B. (*Georgetown Univ.*) 1920, Bangor, Me.
 McQuillan, Arthur Harold, A.B. (*Bowdoin Coll.*) 1920, Skowhegan, Me.
 Mahoney, Stephen Edwin, A.B. 1920, Holyoke
 †Missal, Morris Eli (*Tufts Premedical School*), Bristol, Conn.
 §Mitra, Debi Prosad (*St. Xavier's Coll. and Calcutta Medical Coll.*), Bengal, India
 Morse, Fred Winslow, Jr., S.B. (*Dartmouth Coll.*) 1917, Amherst
 Mudd, Seeley Greenleaf, S.B. (*Columbia Univ.*) 1917, Los Angeles, Cal.
 O'Connor, Cornelius Thomas, A.B. (*Boston Coll.*) 1920, Cambridge
 †Ogden, Ralph Trafton, A.B. (*Bowdoin Coll.*) 1921, Springvale, Me.
 †Oughterson, Ashley Webster (*Syracuse Univ.*), Hall, N. Y.
 Pennock, John Winthrop, A.B. 1917, Syracuse, N. Y.
 Philbrick, Maurice Swain, S.B. (*Bowdoin Coll.*) 1920, Skowhegan, Me.
 †Pinkerton, Henry (*Mass. Institute of Technology*), Boston
 †Prather, George Calvin (*Univ. of Michigan*), Anderson, Ind.
 Ragsdale, Luney Varnon, A.B. (*Univ. of Alabama*) 1917, Bessemer, Ala.
 †Ray, Leighton Webb, S.B. (*Univ. of Mississippi*) 1920, Kosciusko, Miss.
 S.M. (*Univ. of Chicago*) 1922, Sterling, Ill.
 Reitzel, Raymond Jacob, A.B. (*Cornell Coll.*) 1912, Boston
 Reynolds, George Phillips, A.B. 1920, Boston
 Rhoads, Cornelius Packard, A.B. (*Bowdoin Coll.*) 1920, Springfield
 Rooney, Paul Neill Anthony, A.B. (*Boston Coll.*) 1920, Boston
 Ross, Stewart, A.B. (*Middlebury Coll.*) 1920, W. Rutland, Vt.
 Rubin, Gabriel Jacob, S.B. 1920, E. Boston
 Ruest, Florian George, A.B. (*Holy Cross Coll.*) 1920, Pawtucket, R. I.
 †Ryan, Terence Cullen (*Univ. of Maine and Bowdoin Coll.*), Millinocket, Me.
 Saunders, Stanley Stewart, A.B. (*Hamilton Coll.*) 1917, Clinton, N. Y.
 Schilling, Walter, A.B. (*Univ. of California*) 1919, A.M. (*ibid.*) 1920, San Francisco, Cal.
 †Schrieber, John Paul (*Tufts Premedical School and Harvard Univ.*), No. Adams
 †Shore, Benjamin Rice, Jr., A.B. (*Univ. of Missouri*) 1920 (1921), St. Louis, Mo.
 †Simpson, Beverly (*Leland Stanford Jr. Univ.*), San Francisco, Cal.
 †Smead, James Lawton, S.B. (*Dartmouth Coll.*) 1921, Greenfield, Mass.
 Smith, Carleton Tower, S.B. (*Mass. Agricultural Coll.*) 1918, West Newton
 §Smith, Garnet Polydore (*Methodist Coll., Mt. Allison Coll. and Dalhousie Univ.*), Cupids, Newfoundland
 Smith, Joseph, A.B. (*Brown Univ.*) 1920, E. Providence, R. I.
 Southworth, Franklin Chester, Jr., A.B. 1920, Meadville, Pa.
 Spellman, John William, A.B. (*Holy Cross Coll.*) 1920, Whitman
 †Spies, John William (*Univ. of Texas*), Bonham, Tex.
 †Stalker, Hugh Lyle (*Harvard Univ.*), E. Boston
 †Steidl, John Henry (*Univ. of Illinois and Univ. of Michigan*), Paris, Ill.
 Stevens, William Borden, A.B. 1920, Newport, R. I.

† Admitted on basis of two years' college work.

‡ Admitted on basis of three years' college work (in several cases work for degree completed).

§ Admitted on basis of four years' college work (in several cases work for degree completed).

Stewart, Fred Waldorf, A.B. (<i>Cornell Univ.</i>) 1916, PH.D. (<i>ibid.</i>) 1919,	Ithaca, N. Y.
Studley, Hiram Orville, A.B. (<i>Univ. of Nebraska</i>) 1920,	Creston, Neb.
Sylvester, Allan Whitney, S.B. (<i>Bowdoin Coll.</i>) 1919,	Portland, Me.
Thomson, James Wallace, S.B. (<i>Rutgers Coll.</i>) 1917, S.M. (<i>ibid.</i>) 1920,	New Kingston, N. Y.
Walsh, John Sylvester, A.B. (<i>Amherst Coll.</i>) 1920,	Sunderland
†Walton, Ralph Wilfred, M.D. (<i>Pacific Med. Coll.</i>) 1914,	Salem, Ore.
Weeks, Joshua Herbert, PH.B. (<i>Brown Univ.</i>) 1919,	New Bedford
Weller, Theodore Warford, S.B. (<i>Oregon Agric. Coll.</i>) 1916,	San José, Cal.
Wheeler, Bancroft Cheever, A.B. 1920,	Worcester
†White, Leslie Barrett, S.B. (<i>Univ. of Utah</i>) 1922,	Salt Lake City, Utah
White, Robert Rombout, Jr., A.B. (<i>Columbia Univ.</i>) 1920,	Newport, R. I.
Whitham, Roy Herbert, A.B. (<i>Univ. of Nebraska</i>) 1920,	Fairfield, Neb.
Whitney, Edward Tracy, A.B. 1917, A.M. (<i>Brown Univ.</i>) 1920,	Middleboro
†Williams, Roy G., A.B. (<i>Univ. of Missouri</i>) 1921, A.M. (<i>ibid.</i>) 1922,	La Plata, Mo.
Woodall, Charles Simpson, A.B. (<i>Mercer Univ.</i>) 1913, A.M. (<i>ibid.</i>) 1920,	Macon, Ga.
Woodruff, William Warriner, S.B. (<i>Univ. of Alabama</i>) 1920,	Detroit, Mich.
†Young, John Garnett, S.B. (<i>Bowdoin Coll.</i>) 1921,	Paris, Texas

SECOND CLASS

†Arias, Arnulfo (<i>Univ. of Chicago</i>),	Panama City, Panama
Baker, Clyde Nelson, S.B. (<i>Univ. of Chicago</i>) 1921,	Passaic, N. J.
Baldrige, Robert Reed, A.B. (<i>Brown Univ.</i>) 1921,	McKeesport, Pa.
Baty, James Marvin, A.B. (<i>Birmingham-Southern Coll.</i>) 1920,	Bessemer, Ala.
Bell, James Roeder, A.B. 1921,	Cleveland, O.
†Blair, Montgomery, Jr. (<i>Princeton Univ.</i>),	Silver Spring, Md.
Blosser, Harold LaVerne, A.B. (<i>Grinnell Coll.</i>) 1919,	Kellogg, Ia.
Bradley, John Ignatius, A.B. (<i>Georgetown Univ.</i>) 1920,	Anaheim, Cal.
Brown, Harrison Cabot, A.B. 1921,	San Francisco, Cal.
Brubaker, Warren Isaac, S.B. (<i>Albright Coll.</i>) 1921,	Richland, Pa.
†Bryan, Samuel (<i>Univ. of Wisconsin</i>),	Memphis, Tenn.
Buker, Richard Steele, S.B. (<i>Bates Coll.</i>) 1921,	Lewiston, Me.
§Burroughs, Travis Pollard, A.B. (<i>Univ. of Missouri</i>) 1917,	Columbia, Mo.
Campbell, John Robert, Jr., S.B. (<i>Princeton Univ.</i>) 1921,	Clarkston, Mich.
Cattell, Richard Bartley, A.B. (<i>Mount Union Coll.</i>) 1921,	Smithfield, O.
Celce, Frederick William, A.B. (<i>Dartmouth Coll.</i>) 1920,	Holyoke
Charnock, Donald Austin, A.B. (<i>Univ. of California</i>) 1921,	San Diego, Cal.
†Clifford, Stewart Hilton (<i>Univ. of North Dakota</i>),	Grand Forks, N. D.

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‡ Admitted on basis of three years' college work (in several cases work for degree completed).

§ Admitted on basis of four years' college work (in several cases work for degree completed).

- Cline, John Wesley, Jr., A.B. (*Univ. of California*) 1921, Santa Rosa, Cal.
- ‡Cloud, Albert Williams (*Indiana Univ.*), Stillwater, Okla.
- Convery, Robert, A.B. (*Georgetown Univ.*) 1919, S.M. (ibid.) 1921, Trenton, N. J.
- Cook, Robert Louis, S.B. 1922 (1920), Brookline
- Cooper, Linn Fenimore, A.B. (*Yale Univ.*) 1921, Cooperstown, N. Y.
- Cox, William Vernon, A.B. (*Univ. of Michigan*) 1921, Steubenville, O.
- Crumrine, Ralph Milton, A.B. (*Cornell Univ.*) 1910, Akron, O.
- Davidson, Donald Gordon, S.B. (*Mass. Agricultural Coll.*) 1921, Amherst
- Davis, Max, A.B. 1921, Dorchester Centre
- Dayton, Theodore Read, A.B. (*Amherst Coll.*) 1916, Danbury, Conn.
- Dickinson, Porter Stevens, A.B. (*Amherst Coll.*) 1921, Lunenburg
- Dormody, Horace Leonard, A.B. (*Univ. of California*) 1921, Placerville, Cal.
- †Dunn, Edward Patrick (*Rhode Island State Coll.*), Newport, R. I.
- Dunn, Lawrence Blun, A.B. (*Princeton Univ.*) 1920, Savannah, Ga.
- †Dye, William Joseph Paul (*Univ. of Wisconsin*), Sistersville, W. Va.
- Falk, Emil Albert, A.B. (*Univ. of Minnesota*) 1921, Garretson, S. D.
- Faxon, Henry Hardwick, A.B. 1921, Quincy
- Franklin, Churchill Charles, A.B. (*Rutgers Coll.*) 1921, Helmetta, N. J.
- Franklin, Joseph, A.B. 1921, Selma, Cal.
- †Fu, Wen Shon (*Tsing-Hua Coll. and Vanderbilt Univ.*) Chekiang, China
- §Fulton, James Roy (*Univ. of Washington*), Bremerton, Wash.
- ‡Ghrist, David Garrison, A.B. (*Leland Stanford Jr. Univ.*) 1921, Ames, Ia.
- Goduti, Emil, S.B. (*Tufts Coll.*) 1921, Somerville
- Greene, Frederick Standish, A.B. (*Amherst Coll.*) 1920, Jaffrey, N. H.
- §Greene, James Alexander (*Meridian Coll., Southern Methodist Univ., and Harvard Coll.*) Dallas, Tex.
- Gregg, Ralph, S.B. (*Univ. of Washington*) 1921, Coulee City, Wash.
- Guidone, Erel Linguiti, S.B. (*Trinity Coll.*) 1920, Hartford, Conn.
- Heinz, Herschel, S.B. 1921, Everett
- Hemsath, Frederick Augustus, S.B. (*Muhlenberg Coll.*) 1915, Bethlehem, Pa.
- Holzman, Jacob Easton, A.B. (*Reed Coll.*) 1921, Portland, Ore.
- Howard, Philip Jay, S.B. (*Wesleyan Univ.*) 1921, E. Northfield
- †Hudson, Henry William, Jr. (*Dartmouth Coll.*), Buffalo, N. Y.
- †Ingraham, Franc Douglas (*Leland Stanford Jr. Univ., and Harvard Coll.*), Minneapolis, Minn.
- Johnson, Willard Carlisle, A.B. (*Kentucky State Univ.*) 1921, Boston, Ky.
- Jones, John Lewis, S.B. (*Utah Agricultural Coll.*) 1915, Monroe, Utah
- Jordan, Arthur Cheever, S.B. (*Boston Univ.*) 1921, Peabody
- Kelley, Harry Norton, A.B. (*Clark Univ.*) 1921, Worcester
- Kellogg, John Francis, Jr., A.B. (*Univ. of Rochester*) 1921, Avon, N. Y.

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‡ Admitted on basis of three years' college work.

§ Admitted on basis of four years' college work (in several cases work for degree completed).

- King, Richard Bruce, A.B. (*Princeton Univ.*) 1921, Washington, D. C.
† Kirkwood, Robert Joseph (*Harvard Coll.*), So. Boston
† Kyle, Ernest Idé (*Univ. of West Virginia*), Welch, W. Va.
Lamson, Robert Ward, S.B. (*Mass. Agricultural Coll.*)
1912, A.M. (*Columbia Univ.*) 1917, PH.D. (*Harvard Univ.*) 1922, Amherst
† Lesser, Maurice Aaron (*Tufts Premedical School and Harvard Coll.*),
Levy, Henry, A.B. 1921, Dorchester
Linton, James Reginald, S.B. (*Univ. of Washington*) New Bedford
1921, Grangemouth, Scotland
Linton, Robert Ritchie, S.B. (*Univ. of Washington*)
1921, Grangemouth, Scotland
Lionberger, David Leo, A.B. (*Nebraska State Univ.*)
1921, Table Rock, Neb.
Lumb, Charles Lovejoy, A.B. (*Amherst Coll.*) 1921, Poughkeepsie, N. Y.
McCarty, Raymond Anthony, A.B. (*Boston Coll.*) 1921, Waltham
McConkey, Mack, S.B. (*Mount Union Coll.*) 1921, Shawnee, Okla.
McCrum, Philip Henry, S.B. (*Bowdoin Coll.*) 1921, Portland, Me.
† McHenry, Lawrence Chester (*Univ. of Oklahoma and DePauw Univ.*), Oklahoma City, Okla.
McLellan, Philip Garretson, A.B. (*Bowdoin Coll.*) 1921, Caribou, Me.
Macnie, John Percival, A.B. (*Yale Univ.*) 1921, Minneapolis, Minn.
Maddock, Steven James, A.B. (*Univ. of Cincinnati*)
1919, A.M. (*ibid.*) 1922, Cincinnati, O.
Massaniso, Frank Paul, PH.B. (*Brown Univ.*) 1921, Providence, R. I.
§ Massee, Joe Carey, S.B. (*Stetson Univ.*) 1922, Brookline
May, George Elliott, A.B. (*Hamilton Coll.*) 1921, Brooklyn, N. Y.
Miller, Ralph Kennedy, A.B. (*Univ. of Michigan*) 1921, Carthage, Ill.
Millikin, Neil, A.B. (*Johns Hopkins Univ.*) 1921, Hamilton, O.
Moffatt, William, A.B. (*Yale Univ.*) 1921, Utica, N. Y.
Morrill, Harold Frost, A.B. (*Bowdoin Coll.*) 1921, Wells, Me.
Murdoch, James Clifford, S.B. (*Univ. of Pittsburgh*)
1921, Pittsburgh, Pa.
Myers, Roscoe Wallace, A.B. (*Clark Univ.*) 1921, Worcester
Orr, Paul Frederick, S.B. (*Oklahoma Agricultural and Mechanical Coll.*) 1915, S.M. (*Iowa State Coll.*) 1918, Lawton, Okla.
Palmer, Robert Sterling, A.B. (*Princeton Univ.*) 1920, Columbus, O.
Parks, Floyd Roswell, A.B. (*Cornell Univ.*) 1921, Atlantic City, N. J.
Pearse, Herman Elwyn, Jr., A.B. (*Univ. of Missouri*)
1921, Kansas City, Mo.
Peirson, Edward Lawrence, Jr., S.B. 1921, Salem
Pike, Maurice Mitchell, A.B. (*Brown Univ.*) 1921, Providence, R. I.
Poyner, Herbert Flake, A.B. (*Univ. of Texas*) 1920, Plainview, Tex.
† Pressman, Joel Jay (*Univ. of Virginia*), New York, N. Y.
Raymer, John George, A.B. (*Wesleyan Univ.*) 1921, Beaver, Pa.
Reichbaum, Theodore, S.B. (*Lafayette Coll.*) 1920(1921), Easton, Pa.
Rhees, Morgan John, A.B. (*Univ. of Rochester*) 1921, Rochester, N. Y.
Roberts, Sumner Mead, A.B. 1921, Boston

† Admitted on basis of two years' college work.

‡ Admitted on basis of three years' college work.

§ Admitted on basis of four years' college work (in several cases work for degree completed).

- Rogers, Robert Page, A.B. 1921, Chestnut Hill
 §Rooney, James Stewart (*Univ. of California*), Sacramento, Cal.
 †Rosenblatt, Millard Samuel, A.B. (*Leland Stanford Jr. Univ.*) 1922, Portland, Ore.
 §Salter, William Thomas, A.B. 1922, Milton
 †Sandison, James Calvin, A.B. (*Univ. of Missouri*) 1922, Moberly, Mo.
 †Saunders, George Murdock (*Univ. of Wisconsin*), Superior, Wis.
 Savitz, Harry Austryn, S.B. 1921, Roxbury
 †Schneck, Robert Jacob (*Northwestern Univ.*), Mt. Carmel, Ill.
 †Simpson, Sutherland Eric Rognvald, A.B. (*Cornell Univ.*) 1921, Ithaca, N. Y.
 †Sloan, Lawrence Wells (*Univ. of Utah and Harvard Coll.*), Cambridge
 Smith, George Van Sicken, A.B. 1921, Richmond Hill, L. I., N. Y.
 Smithwick, Reginald Hammerick, S.B. (*Mass. Inst. of Technology*) 1921, Boston
 Sophian, Lawrence Henry, A.B. (*Coll. of City of New York*) 1921, New York, N. Y.
 †Spyrounes, George Kyriacouly (*Harvard Coll.*), Lowell
 Strang, James MacLaren, S.B. (*Mass. Inst. of Tech.*) 1918, Auburndale
 Swan, Charles Louis, Jr., A.B. 1921, Stoughton
 Taran, Leo Maurice, A.B. 1920, Brooklyn, N. Y.
 Tenney, Benjamin, Jr., S.B. (*Dartmouth Coll.*) 1921, Boston
 Tiede, Joseph W., A.B. (*Univ. of Iowa*) 1921, Parkston, S. D.
 Townsend, Wilmot Charles, A.B. (*Amherst Coll.*) 1920, Brooklyn, N. Y.
 Traver, Clarence Alvah, A.B. (*Colgate Univ.*) 1921, Albany, N. Y.
 Twinem, Francis Patton, A.B. (*Wooster Univ.*) 1917, Wooster, O.
 A.M. (*Princeton Univ.*) 1919, Bethlehem, Pa.
 Walker, Dudley Pomp, A.B. (*Yale Univ.*) 1921, Hanyang, China
 §Wang, Robert P'an Kuei (*Tsing Hua Coll. and Adelbert Coll.*), Twin Falls, Idaho
 Weaver, Charles Russell, A.B. (*Pomona Coll.*) 1921, Brandon, Miss.
 Weille, Francis Lee, S.B. (*Univ. of Virginia*) 1921, Bethlehem, Pa.
 Weiss, Peter Francis, A.B. (*Lehigh Univ.*) 1921, W. Springfield
 Whitney, Jerome Andrew, A.B. (*Holy Cross Univ.*) 1921, Mullins, S. C.
 Williamson, Gustavus Adolphus, Jr., S.B. (*Univ. of South Carolina*) 1921, Indianapolis, Ind.
 Wishard, William Niles, Jr., A.B. (*Williams Coll.*) 1921, Yang, Ko Nien, S.B. (*Univ. of Chicago*) 1921, Kao-Chiao, Chang-Sha, China

FIRST CLASS

- †Adams, Chester Howard (*Harvard Coll.*), Newton
 Allen, Ellery George, S.B. (*Colgate Univ.*) 1922, Clyde, N. Y.
 §Allen, Farrow Robert (*Fisk Univ., Harvard Coll.*), Chattanooga, Tenn.
 Anastasis, Aristocles George, A.B. (*Anatolia Coll.*) 1915, Boston
 Anthony, Marc, A.B. 1922, Spokane, Wash.

† Admitted on basis of two years' college work.

‡ Admitted on basis of three years' college work.

§ Admitted on basis of four years' college work (in several cases work for degree completed).

‡Apollonio, Howard Lothrop (<i>Tufts Coll.</i>),	Boston
Badger, Theodore Learnard, A.B. (<i>Yale Univ.</i>) 1922,	Boston
Baisley, Charles Reuben, A.B. 1922,	Billerica
Balfour, Marshall Coulter, S.B. (<i>Mass. Institute of Technology</i>) 1918,	Marlboro
Bargar, Harry, A.B. 1922,	Chelsea
Barr, Joseph Seaton, S.B. (<i>Wooster Coll.</i>) 1922,	Canton, O.
‡Barton, Robert Burns (<i>Harvard Coll.</i>),	Cambridge
Beetham, William Parkes, A.B. (<i>Ohio Wesleyan Univ.</i>) 1922,	Bellair, O.
‡Bishop, Lloyd Willard (<i>Bowdoin Coll.</i>),	Brunswick, Me.
Boeck, William Charles, S.B. (<i>Carleton Coll.</i>) 1915,	
A.M., PH.D. (<i>Univ. of California</i>) 1918,	Olivia, Minn.
Booth, George, S.B. (<i>Allegheny Coll.</i>) 1922,	Pittsburgh, Pa.
Bragger, James Keenan, S.B. 1922,	Chestnut Hill
Branch, John Luther, A.B. (<i>Univ. of Alabama</i>) 1922,	Montgomery, Ala.
Brewer, Wilfred Reginald, A.B. (<i>Bowdoin Coll.</i>) 1922,	Presque Isle, Me.
‡Bridge, Edward Mervin (<i>Northwestern Univ.</i>),	Hazardville, Conn.
‡Brooke, Percy Albert (<i>Harvard Coll., Harvard Dental School</i>),	Bath, England
Bruckman, Fred Sweet, A.B. (<i>Univ. of California</i>) 1921,	Los Angeles, Cal.
Buck, Burdette Jay, A.B. (<i>Colgate Univ.</i>) 1922,	Ulysses, Pa.
Bumpus, Laurin Dudley, PH.B. (<i>Brown Univ.</i>) 1922,	Duxbury
Burrage, Walter Swan, A.B. 1918,	Brookline
Butler, Allan Macy, LITT.B. (<i>Princeton Univ.</i>) 1916,	Windsor, Vt.
Butler, Henry Rutherford, Jr., A.B. (<i>Atlanta Univ.</i>) 1922,	Atlanta, Ga.
Cobb, Clement Biddle Penrose, A.B. (<i>Williams Coll.</i>) 1922,	New York, N. Y.
Cohan, David Ayman, A.B. 1921(1922),	Roxbury
Collins, Wylie Louis, A.B. (<i>Acadia Univ.</i>) 1921, A.M. (<i>ibid.</i>) 1922,	Port Williams, N. S.
Cooksey, Warren B., A.B. (<i>Univ. of Kansas</i>) 1922,	Wakita, Okla.
Cooney, Edward Anthony, PH.B. (<i>Brown Univ.</i>) 1922,	Providence, R. I.
Courtiss, Morris, S.B. 1922,	Revere
‡Coyne, John Anthony (<i>Bowdoin Coll., Colby Coll.</i>),	Waterville, Me.
Dean, Abbott Meston, A.B. 1922,	Council Bluffs, Ia.
Deery, Edwin Marshall, S.B. (<i>Rhode Island State Coll.</i>) 1921,	Jamaica Plain
§Doege, Paul Frederick (<i>Univ. of Wisconsin, Western Reserve Univ.</i>),	Marshfield, Wis.
Duane, Arthur Ravenel, A.B. 1922,	Boston
Dunn, Louis Bennett, A.B. 1922,	Revere
Ellis, Laurence Brewster, A.B. 1922,	Monson
Engel, Gilson Colby, A.B. (<i>Johns Hopkins Univ.</i>) 1922,	Baltimore, Md.
Finland, Maxwell, S.B. 1922,	Boston
Fletcher, Russell, A.B. (<i>Univ. of California</i>) 1922,	San Francisco, Cal.

‡ Admitted on basis of three years' college work.

§ Admitted on basis of four years' college work (in several cases work for degree completed).

- Fox, Abraham Henry, A.B. 1922, Boston
 Gallup, Henry Ezra, PH.B. (*Brown Univ.*) 1921, Danielson, Conn.
 Gates, Edwin Wilder, S.B. (*Colby Coll.*) 1922, Keene, N. H.
 George, Wendell Dow, A.B. (*Hamilton Coll.*) 1922, Chaumont, N. Y.
 Gilbert, Henry Raymond, S.B. (*Wesleyan Univ.*) 1922, Bethel, Conn.
 Gilbert, Reuben, S.B. (*Coll. of the City of New York*) 1922, New York, N. Y.
 §Goodman, Bernard Artemus (*Baylor Univ., Columbia Univ.*), Waco, Tex.
 †Gundersen, Trygve (*Univ. of Wisconsin*), La Crosse, Wis.
 Guzzetta, Denis Philip, A.B. 1922, Milwaukee, Wis.
 Hanson, James Fletcher, A.B. (*Mercer Univ.*) 1922, Macon, Ga.
 Hatch, Wallace Everett, S.B. (*New Hampshire State Coll.*) 1922, Boston
 Headland, Courtenay Inglis, S.B. (*Mt. Union Coll.*) 1922, Alliance, O.
 Heath, Clark Wright, A.B. 1922, Buffalo, N. Y.
 Hill, Prescott William, PH.B. (*Brown Univ.*) 1915, A.M. Providence, R. I.
 (*ibid.*) 1916, Anderson, Ind.
 Hoffman, Donald Clare, A.B. (*DePauw Univ.*) 1922, Mannington, W. Va.
 Hopwood, Arthur Thomas, A.B. (*W. Virginia Univ.*) 1922, St. John's, Newfoundland
 †Hudson, George Edwin (*Mt. Allison Univ.*), Raub, Ind.
 Keefe, Thomas Leo, S.B. (*Univ. of Notre Dame*) 1922, Lawrence, Kans.
 Kiefer, Everett Duane, A.B. (*Univ. of Kansas*) 1921, Essex Fells, N. J.
 Kirkby, Cyril Streater, S.B. (*Trinity Coll.*) 1922, No. Woodstock, N.H.
 Knowlton, Wilson Warner, S.B. (*Bowdoin Coll.*) 1922, New York, N. Y.
 Lanchner, Abraham Joseph, S.B. (*Coll. of the City of New York*) 1921, A.M. (*Harvard Univ.*) 1922, New York, N. Y.
 Lanson, Freeman Arthur, A.B. (*Univ. of Michigan*) 1922, Tionesta, Pa.
 Larkey, Jefferson, A.B. (*Univ. of California*) 1922, Oakland, Cal.
 Larrabee, John Whitfield, A.B. 1922, P. E. Island, Canada
 Lesses, Mark Falcon, A.B. 1922, Salem
 Levin, Isadore Leonard, A.B. 1922, Lorain, O.
 Lewis, William Hall, Jr., A.B. 1922, Donora, Pa.
 Linnehan, Edward Henry, A.B. (*Holy Cross Coll.*) 1917, Pittsfield
 A.M. (*ibid.*) 1920, Natick, R. I.
 Littlefield, Frank Browning, PH.B. (*Brown Univ.*) 1922, Oklahoma City, Okla.
 Long, Wendell McLean, A.B. (*Univ. of Oklahoma*) 1922, Brookline
 Mallory, George Kenneth, A.B. 1922, Somerville
 †Malone, Stephen Joseph (*Tufts Premedical School*), Iona, N. S.
 McDonald, John Leonard, A.B. (*St. Francis Xavier Coll.*) 1921, Saranac Lake, N. Y.
 McKee, Frederick William Haskell, A.B. (*Yale Univ.*) 1922, Worcester
 McKoan, John William, Jr., A.B. (*Dartmouth Coll.*) 1922,

† Admitted on basis of two years' college work.

‡ Admitted on basis of three years' college work.

§ Admitted on basis of four years' college work (in several cases work for degree completed).

- McNeil, Donald, A.B. (*St. Francis Xavier's Coll.*) 1918,
A.M. (*Catholic Univ. of America*) 1922, Sydney, N. S.
- McSweeney, Daniel Joseph, A.B. (*Boston Coll.*) 1922, Dorchester
- Morgan, Richard Pugh, A.B. (*Princeton Univ.*) 1922, Johnstown, Pa.
- Morrison, Gordon Mackay, A.B. (*War Degree*) 1920, E. Boston
- Nelson, Roger Waldemar, PH.B. (*Brown Univ.*) 1922, Quincy
- Neptune, Edgar McClain, A.B. 1922, Loudonville, O.
- Nowak, Stanley John Gregory, A.B. 1922, Chicopee Falls
- † Olefsky, Isadore (*Boston Univ., Mass. Institute of Technology*), Boston
- † Peale, Robert Clifford (*Ohio Wesleyan Univ.*), Findlay, O.
- Pelletier, Walmore Alexis, A.B. (*Clark Univ.*) 1922, Avon
- † Petrone, Francis Joseph (*Tufts Coll., Columbia Univ.*), Riverside, Conn.
- Porter, John McGill, A.B. (*Univ. of Kansas*) 1921, Topeka, Kans.
- Potts, William Henry, Jr., A.B. (*Univ. of Texas*) 1922, Dallas, Texas
- Pratt, Theodore Cary, A.B. 1922, Richmond, Va.
- § Restall, Malcolm Morris (*Harvard Coll.*), Swampscott
- Rewbridge, Allan George, S.B. (*Univ. of Pittsburgh*) 1922, Pittsburgh, Pa.
- Reynolds, Robert Gardner, S.B. (*Trinity Coll.*) 1922, Glastonbury, Conn.
- Rodman, Isaac, A.B. 1922, Malden
- Rones, Benjamin, A.B. (*Johns Hopkins Univ.*) 1922, Baltimore, Md.
- Ruder, Carl, S.B. (*Gettysburg Coll.*) 1922, Mt. Pleasant, Pa.
- Sanford, Shelton Palmer, A.B. (*Univ. of Georgia*) 1916, Athens, Ga.
- A.M. (*ibid.*) 1917, Denver, Colo.
- Savage, Raymond James, PH.B. (*Georgetown Univ.*) 1922, Brooklyn, N. Y.
- Schlesinger, Monroe Jacob, S.B. (*Coll. of the City of New York*) 1912, PH.D. (*Harvard Univ.*) 1920, Seattle, Wash.
- Seelye, Walter Bale, S.B. (*Univ. of Washington*) 1922, Litchfield, Me.
- Snowe, Aubrey Emmons, S.B. (*Bates Coll.*) 1919, Alameda, Cal.
- † Sooy, Joseph Willfred (*Univ. of California*), Boston
- Stern, David, A.B. 1922, Sharon
- Stetson, Richard Pratt, A.B. (*Dartmouth Coll.*) 1922, Arlington Heights
- Stevens, Amos Henry, S.B. (*Mass. Institute of Technology*) 1922, Lexington
- Strieder, John William, S.B. (*Mass. Institute of Technology*) 1922, Lexington
- Sutherland, Francis Alexander, A.B. (*Washington and Lee Univ.*) 1922, Pulaski, Va.
- † Sweet, Richard Harwood (*Columbia Univ.*), Allston
- Talamo, Haskell, A.B. (*Clark Univ.*) 1916, Worcester
- † Terwilliger, William Gilbert (*Columbia Univ., Univ. of Maryland*), Highland, N. Y.
- Thurmon, Francis Mozart, S.B. (*Illinois Coll.*) 1922, Roodhouse, Ill.
- Turner, Kenneth Burlen, A.B. (*Hamilton Coll.*) 1922, Medina, N. Y.
- Urmey, Thomas Van Orden, S.B. (*Princeton Univ.*) 1921, Bellevue, Pa.
- Valentino, Angelo George, A.B. (*Brown Univ.*) 1922, Providence, R. I.

† Admitted on basis of two years' college work.

‡ Admitted on basis of three years' college work.

§ Admitted on basis of four years' college work (in several cases work for degree completed).

Wakefield, John Myron, A.B. (<i>Univ. of California</i>)	
1917, D.D.S. (<i>ibid.</i>) 1921,	Waterman, Cal.
Weiss, Harry, C.E. (<i>Columbia Univ.</i>) 1913, A.M. (<i>ibid.</i>)	
1915, PH.D. (<i>ibid.</i>) 1917,	Boston
Wellman, Harvey Elijah, A.B. (<i>Williams Coll.</i>) 1914,	Providence, R. I.
Wheeler, Ralph Emerson, A.B. 1922,	Boston
Wicks, Walter Wood, A.B. (<i>Yale Univ.</i>) 1921,	Scotland, S. D.
Wilson, Clinton, A.B. (<i>Reed Coll.</i>) 1922,	Twin Bridges, Mon.
Wilson, James Leroy, A.B. (<i>Colby Coll.</i>) 1920,	So. Paris, Me.
Winnard, Norton Goodman, A.B. (<i>Univ. of Oregon</i>)	
1922,	Eugene, Ore.

SUMMARY

CANDIDATES FOR DEGREE OF DOCTOR OF MEDICAL SCIENCES	1
CANDIDATES FOR DEGREE OF DOCTOR OF MEDICINE	
FOURTH CLASS	124
THIRD CLASS	124
SECOND CLASS	125
FIRST CLASS	125
TOTAL	499

DISTRIBUTION BY COLLEGES AND PREPARATION OF MEN ADMITTED TO FIRST YEAR STANDING*

Institutions giving Premedical Training	Location	Admitted on basis of a degree	Admitted on basis of 2, 3, or 4 years' college work	Total
Acadia College	Nova Scotia	3	..	3
Adelbert College	Ohio	..	1	1
Alabama, University of	Alabama	3	..	3
Albright College	Pennsylvania	1	..	1
Allegheny College	Pennsylvania	1	..	1
Amherst College	Massachusetts	7	1	8
Anatolia College	Turkey	1	..	1
Atlanta University	Georgia	1	..	1
Bates College	Maine	4	1	5
Baylor University	Texas	..	1	1
Birmingham-Southern College	Alabama	1	..	1
Boston College	Massachusetts	6	..	6
Boston University	Massachusetts	3	4	7
Bowdoin College	Maine	9	3	12
Brown University	Rhode Island	17	..	17
California, University of	California	10	4	14
Carlton College	Minnesota	1	..	1
Catholic University of America	District of Col.	1	..	1
Chicago, University of	Illinois	3	2	5
City of New York, College of	New York	5	..	5
Clark University	Massachusetts	5	..	5
Colby College	Maine	3	2	5
Colgate University	New York	6	..	6
Colorado College	Colorado	2	1	3
Colorado, University of	Colorado	..	1	1
Columbia University	New York	5	4	9
Cornell College	Iowa	1	..	1
Cornell University	New York	2	..	2
Dalhousie University	Nova Scotia	..	1	1
Dartmouth College	New Hampshire	7	1	8
Denver, University of	Colorado	1	..	1
De Pauw University	Indiana	1	1	2
Drury College	Missouri	1	..	1
Fiske University	Tennessee	..	1	1
Franklin and Marshall College	Pennsylvania	1	..	1
Georgetown University	District of Col.	4	..	4
Georgia, University of	Georgia	3	..	3
Gettysburg College	Pennsylvania	1	..	1
Grinnell College	Iowa	3	..	3
Hamilton College	New York	4	..	4
Harvard College	Massachusetts	83	30	113
Hastings College	Nebraska	1	..	1
Holy Cross College	Massachusetts	5	..	5
Illinois College	Illinois	1	..	1
Illinois, University of	Illinois	2	3	5
Iowa State College	Iowa	1	..	1
Iowa, University of	Iowa	1	..	1
Johns Hopkins University	Maryland	3	..	3
Kansas, University of	Kansas	4	1	5
Kentucky State University	Kentucky	1	..	1
Kenyon College	Ohio	..	1	1
Lafayette College	Pennsylvania	1	..	1
Lehigh University	Pennsylvania	1	..	1
Leland Stanford Jr. University	California	1	3	4
Lincoln University	Pennsylvania	1	..	1
Maine, University of	Maine	..	2	2
Maryland, University of	Maryland	..	1	1
Mass. Agricultural College	Massachusetts	5	1	6
Mass. Inst. of Technology	Massachusetts	7	3	10
Mercer University	Georgia	2	..	2
Meridian College	Texas	..	1	1
Methodist College	Newfoundland	..	1	1

* Students were admitted from certain of these colleges only on the basis of having done additional work at an approved college.

Institutions giving Premedical Training	Location	Admitted on basis of a degree	Admitted on basis of 2, 3, or 4 years' college work	Total
Michigan, University of	Michigan	5	2	7
Middlebury College	Vermont	2	..	2
Minnesota, University of	Minnesota	1	..	1
Missouri, University of	Missouri	2	1	3
Mount Allison College	New Brunswick	..	2	2
Mount Union College	Ohio	3	..	3
Muhlenberg College	Pennsylvania	1	..	1
Nebraska, University of	Nebraska	5	1	6
New Brunswick, University of	Canada	1	..	1
New Hampshire State College	New Hampshire	1	3	4
New York University	New York	2	..	2
North Carolina, University of	No. Carolina	..	1	1
North Dakota, University of	North Dakota	..	1	1
Northwestern University	Illinois	..	2	2
Notre Dame University	Indiana	2	..	2
Ohio State University	Ohio	..	3	3
Ohio Wesleyan University	Ohio	1	2	3
Oklahoma Agr. and Mech. College	Oklahoma	1	..	1
Oklahoma, University of	Oklahoma	1	1	2
Oregon Agricultural College	Oregon	1	..	1
Oregon, University of	Oregon	3	..	3
Pittsburgh, University of	Pennsylvania	2	..	2
Pomona College	California	1	..	1
Princeton University	New Jersey	8	1	9
Randolph-Macon College	Virginia	..	1	1
Reed College	Oregon	2	..	2
Rhode Island State College	Rhode Island	1	1	2
Rochester, University of	New York	2	1	3
Rutgers College	New Jersey	5	..	5
St. Xavier's College	Nova Scotia	2	..	2
San Marcos, University of	Peru	1	..	1
Shurtleff College	Illinois	1	..	1
South Carolina, University of	South Carolina	2	..	2
Southern Methodist University	Texas	..	1	1
Syracuse University	New York	..	1	1
Texas Agr. and Mech. College	Texas	..	1	1
Texas, University of	Texas	3	1	4
Trinity University	Connecticut	2	..	2
Tsing-Hua College	China	..	2	2
Tufts College	Massachusetts	1	4	5
Tufts Premedical School	Massachusetts	..	6	6
Utah Agricultural College	Utah	1	..	1
Utah, University of	Utah	..	1	1
Vanderbilt University	Tennessee	..	1	1
Virginia, University of	Virginia	2	1	3
Washington, University of	Washington	4	1	5
Washington and Lee College	Virginia	2	1	3
Wesleyan University	Connecticut	5	..	5
West Virginia, University of	West Virginia	1	1	2
Western Reserve University	Ohio	..	1	1
Wheaton College	Illinois	1	..	1
Williams College	Massachusetts	6	..	6
Wisconsin, University of	Wisconsin	1	7	8
Wooster University	Ohio	2	1	3
Yale University	Connecticut	12	..	12
Totals		348	131	479
Less number counted twice		15	29	44
		333	102	435

DISTRIBUTION BY MEDICAL SCHOOLS AND AMOUNT OF PREMEDICAL PREPARATION OF MEN ADMITTED TO ADVANCED STANDING

School at which study of medicine was begun	Location	Admitted to study of medicine on basis of a degree	Admitted to study of medicine on basis of 2, 3, or 4 years' col- lege work	Total
Bowdoin College	Maine	3	5	8
Calcutta Medical College	India	..	1	1
California, University of	California	3	4	7
Chicago, University of	Illinois	..	2	2
Cincinnati, University of	Ohio	1	..	1
Cornell University	New York	1	2	3
Dalhousie University	Canada	1	..	1
Dartmouth College	New Hampshire	..	1	1
Johns Hopkins University	Maryland	1	..	1
Kansas, University of	Kansas	..	2	2
Leland Stanford Jr. University	California	1	4	5
Michigan, University of	Michigan	2	3	5
Mississippi, University of	Mississippi	..	1	1
Missouri, University of	Missouri	1	6	7
North Dakota, University of	North Dakota	..	2	2
Oregon, University of	Oregon	1	1	2
Texas, University of	Texas	1	..	1
Tufts Medical School	Massachusetts	1	..	1
Utah, University of	Utah	1	2	3
Virginia, University of	Virginia	2	..	2
West Virginia, University of	West Virginia	..	1	1
Wisconsin, University of	Wisconsin	2	4	6
Yale University	New Haven	1	..	1
Washington University	Missouri	1	..	1
Indiana, University of	Indiana	..	1	1
Totals		24	42	66
Less number counted twice		..	3	3
		24	39	63

TOTAL NUMBER OF MEN ADMITTED TO FIRST YEAR STANDING 435

TOTAL NUMBER OF MEN ADMITTED TO ADVANCED STANDING 63

GRAND TOTAL 498

ANNOUNCEMENT FOR 1923-24

The next session of the Medical School begins September 24, 1923. All students are required to register at the Dean's office on this day. Students registering in the Medical School for the first time will meet in the Amphitheatre in the Administration Building of the Harvard Medical School, on Monday, the 24th of September, at 10 A.M. Students desiring to enter the Harvard Medical School in the first-year class, or with advanced standing, should file an application blank, which can be obtained from the Dean's office, on or before May 1, 1923.

CALENDAR

1923.

- Sept. 24, Monday.* **Academic Year begins.** Registration of Students. Payment of the first instalment of the tuition fee is required on this date.
- Oct. 12, Friday.* Columbus Day : a holiday.
- Nov. 28, Wednesday.* Payment of the second instalment of the tuition fee is required on or before this date.
- Nov. 29, Thursday.* Thanksgiving Day : a holiday.
- Dec. 8, Saturday.* Last day for receiving applications for the Cheever, Haven, and Hayden Scholarships.

RECESS FROM DEC. 23, 1923, THROUGH JAN. 2, 1924, INCLUSIVE

1924.

- Jan. 1, Tuesday.* New Year's Day : a holiday.
- Jan. 12, Saturday.* Last day for receiving applications from students in the Professional Schools to be qualified for the degrees of Ph.D. and A.M. in 1924.
- Jan. 29, Tuesday.* Payment of the third instalment of the tuition fee is required on or before this date.
- Jan. 31, Thursday.* **Second half-year begins.**
- Feb. 22, Friday.* Washington's Birthday : a holiday.
- March 29, Saturday.* Last day for receiving dissertations for the Bowdoin Prizes.

RECESS FROM APRIL 14 TO APRIL 20, INCLUSIVE

- April 28, Monday.* Payment of the fourth instalment of the tuition fee is required on or before this date.
- May 1, Wednesday.* Last day for receiving dissertations for the Dante, Toppan, and Sumner Prizes.
- May 1, Wednesday.* Last day for receiving applications for the Bullard Fellowships and the Moseley Travelling Fellowships.
- May 1, Wednesday.* Last day for receiving applications for Scholarships for 1924-25 (except the Cheever, Haven, and Hayden Scholarships).
- May 1, Wednesday.* Last day for receiving applications of candidates for the degree of M.D. in 1924.
- May 30, Friday.* Memorial Day: a holiday.
- June 19, Thursday.* Commencement.

SUMMER VACATION, FROM COMMENCEMENT TO SEPTEMBER 21, INCLUSIVE



OFFICIAL REGISTER OF HARVARD UNIVERSITY

[Entered March 6, 1913, at Boston, Mass., as second-class matter,
under Act of Congress of August 24, 1912.]

Issued at Cambridge Station, Boston, Mass., three times each,
in January, February, July, August, and September; eight
times each, in March, April, May, and June; twice each, in
October, November, and December.

These publications include :—

The Annual Reports of the President and of the Treasurer.

The Annual University Catalogue.

The Annual Catalogues of the College and the several Professional Schools of the University; the Descriptive Pamphlet; the Announcements of the several Departments; etc., etc



